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# AMERICAN FARMER,

CONTAINING

ORIGINAL ESSAYS AND SELECTIONS

ON

# Rural Teonomy

## AND INTERNAL IMPROVEMENTS,

WITH

## kllustrative Engravings

AND THE

## PRICES CURRENT OF COUNTRY PRODUCE.

JOHN S. SKINNER, EDITOR.

VOL. I.

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## AMERICAN FARMER.

## RUBAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

" O fortundos nimium sua si bona norint " . Igricolus." . . . . VIRG.

Vol. 1.

## BALTIMORE, FRIDAY, APRIL 2, 1819.

Num. 1.

#### AGRICULTURE.

#### T Ruta Baga or Swedish Turnip

THE high commendations bestowed upon the Ruta Baga, and the decided preference given to it over other roots and vegetables, as food for live stock, by Mr. Barner, of Delaware, (the owner of the mammoth oxen lately slaughtered in this market) will naturally beget an anxiety to know more of its peculial qualities, and to learn the best mode of cultivating and preserving it.

All those objects will be best accomplished by the perusal of a Treatise lately written by the celebrated Mr. COBBETT, whose pen communicates new life and originality to the most exhausted subjects. We have, therefore, determined to offer to our readers, all that he has said on this matter, as well in his "first" as in his "second part of a year's residence in the United States;" both of which little volumes will be found, especially his notices of agriculture, highly entertaining and instructive.

The length of his remarks, and the near approach of the season for sowing the seed, induce us to commence the publication of his Treatise on Ruta Baga in the present number. It will be continued in each one, successively, until finished.

Mr. BARNEY assures us, that, but for the liberal use of the Ruta Baga, in feeding the two remarkable oxen, lately sold by him in this market, a much greater quantity of Indian meal would have been consumed; and, moreover, that without the Ruta Baga, which helped to constitute that variety necessary to sustain a constant appetite, it is even doubtful whether they could have been made to attain to such extraordinary excellence in the weight and quality of the meat. He fully con-curs with Mr. Cobbett, in estimating potatoes, and other vegetables, as altogether insignificant, in com-parison with the Ruta Baga; and observes, that be sides their intrinsically nutricious quality, they act finely as a medicine, counteracting the astringent effect which would result from a more exclusive use of dry food; all which we must confess, appears very natural and worthy of consideration.

> The state of the s FROM COBBET'S YEAR'S RESIDENCE.

#### RUTA BAGA.

Culture, mode of preserving, and uses of the Rutimes the Swedish Turnip.

DESCRIPTION OF THE PLANT.

IT is my intention, as notified in the public pa-

ped, and even many of the old sheep will be carri-lish towards the latter end of the present year. d away by the dysentary. To provide food for The Ruta Baga is a sort of Turnip well known this season is very difficult. Turnip and Cabbage in the state of New York; where under the name may be usefully applied at this time, and so. I seems necessary to give it enough of description think, might Parsnips and Carrots. But, as few to enable the reader to distinguish it from every of us are in the habit of cultivating these plants other sort of Turnip. to the extent which is necessary for the support. I'me leaf of every other sort of Turnip is of a of a large flock, we must seck resources more yellowish green, while the leaf of the Ruta Baga within our reach." And then the Chancellor pro is of a bluish green, like the green peas when of ceeds to recommend the leaving the second nearly their full size or like the green of a young growth of clover uncut. in order to produce ear- and thrifty early Yorkshire cabbage. Hence it is, ly shoots from sheltered buds for the sheep to eat I suppose, that some persons have called it the until the coming of the natural grass and the ge- Cabbage Turnip. But the characteristics the

having observed, when I lived in Pennsylvania, ish hue mixed, toward the top, with a colour borflourished and succeeded with only common skill it the sort be true and pure, is of a deep yellow, and care; and, in 1815, having by that time had nearly as deep as that of gold. many crops of Ruta Baga exceeding thirty tons. or about one thousand five hundred heaped bushconvinced, could be raised with more ease here proved in many cases

ta Baga, sometimes called the Russia, and som .- March]. with more Ruta Baga at their command best in the world than they have mouths to employ on it; if he The Ru a Baga is apt to degenerate, if the seed present horrid front in England formed the design vation of this invaluable Root, he would, I am ought to be a little r ddish cast. of sending out, to be published in this country, a sure, have a reason to be convinced that, if any treatise on the cultivation of the root and green farmer in the United States is in want of food at take t em up out of the place where they have crops, as cattle, sheep and hog food. This design this pinching season of the year, the fault is nei-grown, and plant them in a plot distant from eve-

say on Sheep, which I received in 1812. After Root in this Island, that I mean, at present to time, planting mine for seed [27th March] taking having stated the most proper means to be em-treat; to which matter I shall add, in another all our English precautions. It is probable, hat ployed in order to keep sheep and lambs during PART of my work, an account of my experiments they would do very well, if ake 1 out of a heap to the winter months he adds: -" Having brought as to the MANGLE WURTZLE, or SCARCITY ROOT; be transplanted, if well elected; hut, lest this our flocks through the winter we now come to the though, as will be seen, I deem that root, except should not do well, I have kept my selected plants most critical season, that is the latter end of in particular cases, of very inferior importance, all the winter in the ground in my gard n well March and the month of April Ar this time the 'Che Parsnip, the Carrot, the Cabbage, are all ex-covered with corn stalks and have a from he

their hay, while the scanty picking of grass, and these, I have not yet made, upon a scale sufficiits purgative quality, will disable them from tak- ently large here, such experiments as would waring the nourishment that is necessary to keep rant me in speaking with any great degree of conhem up. If they fall away, their wool will be in fidence. Of these and other matters I propose to jured, and the growth of their lands will be stop-treat in a future PART, which I shall probably nub-

will rot, and bran they will not eat after having of the Russia Turnip, it is used for the table been led on it during the winter. Potatoes, how-from February to July. But as it may be more ever and the Swedish Turnips, called Ruta Baga, of a stranger in other parts of the country, it

most decidedly distinctive are these: that the I was much surprised at reading this passage; outside of the bulb of the Ruta Baga is of a greenhow prodigiously the root crops of every kind dering on a red; and that the inside of the bulb,

MODE OF SAVING AND PRESERVING THE SEED.

This is rather a nice business, and should be els to the acre, at Botley I formed the design of by no means executed in a negligent manner. sending out to America a treatise on the culture For, on the well attending to this, much of the and uses of that root, which, I was perfectly well success depends; and it is quite surprising how great losses are in the end. frequently sustained than in England, and that it might be easily pre- by the saving in this part of the business, of an served during the whole year, if necessary, I had hour's labour or attention. I one year lost more than half of what would have been an immense Il Mr. Chancellor Livingston whose pub-crop, by a mere piece of negligence in my bailiff lic spirit is manifested fully in his excellent little as to the seed, and I caused a similar loss to a work, which he modestly call an Essay, could gentleman in Berkshire, who had his seed from see my Ewes and Lambs and Hogs, and Cattle. the same parcel that mine was taken, and who at this "critical season" [I write on the 27th of had sent may miles for it, in order to have the

could see me. who am on a poor and exhausted be not saved with care. We, in England, select pie e of land, and who found it covered with the plants to be saved with seed. We examine pers, to put into print an account of all the exper-weeds and brambles in the month of June last; well to find out those that run least into neck and in ents which I have made and shall make, in who found do manure and have hought none; if green We reject all such as approach at all to-Farming and in Gardening upon this Island. I he could see me overstocked, not with mouths wards a whitish colour, or which are even of a several years ago long before tyranny showed its but with food, owing to a little care in the culti- greenish colour, towards the neck, where there

Having selected the plants with great care, we was suggested by the reading of the following ther in the soil nor in the climate.

ry thing of the Turnip or Cabbage kind which is to bear seed. In this Island I am now, at this ground being bare, the sheep will refuse to eat cellent in their kind and in their uses; but, as to trees; and, indeed, this is so very little a matter

that the seed of two or three Turnins is more than thousands of acres in a single day It makes its sufficient to sow an acre of land 1. on one occa-attack when the plants are in the seed leaf: and sion, planted twenty turnips for seed, and the it is very generally prevalent, that it is always an produce, besides what the little birds took as even chance, at least that every field that is sown their share for having kept down the catterpillars, will be thus wholly destroyed was twenty two and a half hounds of clean seed. remedy but that of ploughing and sowing again,

here, compared with the drippy and chilly cli even then there is no crop. Volumes upon volmate of England, while the birds here never umes have been written on the means of pre touch this sort of seed, that a small plot of ground venting or mitigating this calamity; but nothing would, if well managed produce a great quanti- effectual has ever been discovered and at last ty of seed. Whether it would degenerate is a the only means of insuring a crop of Ruta Baga ma or that I have not yet ascertamed, but which in England, is, to raise the plants in small plots.

I am about to ascertain this year.

filants and transfitanting them are necessary, I transfilant them: of which mode of culture 1 know by experience. I on one occasion, had shall speak by and by. It is very singular, that sown all my own seed, and the plants had been a field sown one day, wholly escapes, while a carried off by the fly, of which I shall have to field sown the next day, is wholly destroyed speak presently I sent to a person who had Nay, a part of the same field, sown in the mornraised some seed, which I afterwards found had ing, will sometimes escape, while the part sown come from turnips left promiscuous to go to seed in the afternoon will be destroyed, and sometimes in a part of a field, where they had been sown, the afternoon sowing is the part that is spared The consequence was, that a good third part of To find a remedy for this evil has posed all the my crop had no bulbs, but consist d of a sort of heads of all the naturalists and chemists of Eng rape, all leaves and stacks growing very high land. As an evil, the smut in wheat; the wirewhile even the rest of the crop bore no rescm blance, either in point of size or of quality to round; the catterpillars, green and black; the turnips in the same field, from seed saved in al., g. red. black, and gray, though each a great proper manner, though this latter was sown at tormentor, are nothing. Against all these there a later period.

riable rule applicable to all seeds, that seed, kept slow, and their causes are known. But, the turin the food to the very time of suwing, will vege- nift fly is the English farmer's evil genius. To always on the side of early farmers. Besides, one tate more quickly and more vigorously, than seed discover a remedy for or the cause of this plague. | delay too often produces another delay; and he which has been sometime threshed out Put. has been the object of inquiries, experiments, turnip seed will do very well, if threshed out as analysises, innumerable, Premium upon presoon as ripe, and kept in a dry place, and not mium offered have only produced pretended the 9th of July to the 30th of that month, grew too much exposed to the air. A bag, hung up remedies, which have led to disappointment and in a dry room, is the depository that I use. But mortification; and I have no histation to say, other in diminution of size; and which is a great that the seed may imbibe its full nourishment and larmers would very cheerfully pay him ten guin come to complete perfection, otherwise the seed eas a year each. will wither, much of it will not grow at all, and that which does grow, will produce plants far in- ety to know, whether this mortal ener, y of the ferior to those proceeding from wellripened seed. farmer existed in Long Island. This was the

TIME OF SOWING.

up in the oth of June for the sowing of my become general in this country pri cipal crop

insuct about the size of a bed flea, and jumps the first fifteen days of June grew well, and at land dollars, has arrived safe at Havre.

any farmer would neglect it on account of the la-sect. It abounds at times, in quantities so great did not actually go off to seed, they were very bour or trouble; especially when we consider, as to cat up all the young plants on hundreds and little short of so doing. They rose into long There is no The sun is so aident, and the weather so fair and this is frequently repeated three times, and sown at many different times, in the same manthat all these precautions of selecting the ner as cabbages are sown and, like cabbages worm: and the grubs above ground and under is some remedy, though expensive and plaguing; As to the preserving of the seed, it is an inva- or, at any rate, their ravages are comparatively before being threshed out, the seed should be that if any man could find out a real remedy, and matter, the cold weather overtook them before quite ripe, and, if cut off, or pulled up, which could communicate the means of a cure, while they were ripe; and ripeness is full as necessary latter is the best way, before the pods are quite he kept the nature of the means a secret, he in the case of roots, as in the case of apples or dead, the whole should be suffered to lie in the would be a much richer man than he who should of peaches. sun until the pods are perfectly dead, in order discover the logitude; for about fifty thousand

The reader will easily judge, then, of my anxifirst question which I put to every one of my neighbours, and I argued good from their not Our time of sowing in England is from the first appearing to understand what I meant. Howto the twentieth of June. This was one of the ever as my little plots of turnips came up sucmatters of the most deep interest with me, when cassively, watched them as our farmers dotheir I came to Hyde Park. I could not begin before fields in England. To my infinite satisfaction, I the month of June for 1 had no ground ready. found that my alarms had been groundless. I his But then ! began w t great care on the 2d June | rireumstance besides others that have to men sowing, in small plots once every week, until the tion by and by gives to the stock farmer in A-31 in of July. In every case the seed took well, merica so great an advantage over the farmer in and the plants grew well; but having looked at England, or in any part of the middle and north- Fualdes, have severally been acquitted. the growth of the plots first sown, and calculated ern parts of Europe, that it is truly conderful upon the probable advancement of them, I fixed that the culture of this root has not, long ago

The time of sowing then, may be as circum-I was particularly anxious to know, whether stances may require from the 25t, of June to this ountry were cursed with the turnin fly about the 10th of July, as the res It of my exper-

tradi that it would be monstrous to suppose that away from all approachers exactly like that in- tained a great size and weight; but though they and large necks, and sent out sproats from the upper part of the bulb : and then the bulb itself, which is the thing sought after, swelled no more. The substance of this bulb became hard and stringy; and the turnips, upon the whole, were smaller and of greatly interior quality, compared with those which were sown at the proper time.

The turnips sown between the 15th and 26th of June, had all these bad appearances and quality, only in a less degree. But those which were sown on the 26th of June, were perfect in shape, size and quality; and though I have grown them larger in England, it was not done without more manure upon half an acre, than I scratched together to put upon seven acres at Hyde Park: but of this shall speak more particularly when I come to the quantity of crop.

The sowings which were made alter the 26th of June, and before the 10th of July, did very well: and one particular sowing on the 9th of July, on 12 rods, or perches of ground, sixteen and a half feet to the rod, yielded 62 bushels, leaves and roots out off, which is after the rate of 993 bushels to an acre. But this sowing was on ground extremely well prepared, and sufficiently manured with ashes from burnt earth; a mode of raising manure of which I shall fully treat in a future chapter.

Though this crop was so large, sown on the 9th of July, I would by no means recommend any farmer, who can sow sooner, to deler the business to that time; for I am of opinion with the old folk in the West of England, that God is almost who puts off to the 9th, may put off to the 19th.

The crops in small plots, which I sowed after (TO BE CONTINUED )

#### SELECTED ARTICLES.

London, Jan. 26 .- The 21st inst. being the anniversary of the death of Louis XVI. was observed throughout France with much solemnity None of the daily papers were published on the following day, except the Moniteur, and that only for the purpose of promulgating a Royal Ordinance, containing lists of Counsellors of State, and Masters of Quests.

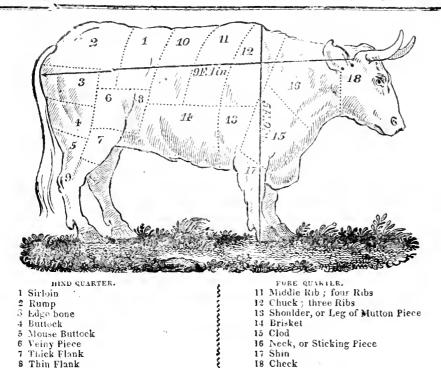
Accounts, both from Sweden and Norway, exhibit the unexampled fact, that down to the beginning of the present month, there has been neither frost nor snow in these remote and hitherto inhospitable regions; but that the primroses blossom, and the gooseberry trees are

green under the 59th degree of latitude.

Paris, Jan. 25 - Constance, Yence, Besiere, and Veynac, charged with being concerned in the murder of M'-

Cincinnati, Ohio, March 4 .- George Dunseth, a citizen of this place, yesterday committed the desperate act of murder, by discharging a loaded pistol at a Mr. Lewis, a stranger. A reward of one hundred dollars is offered by the mayor for his apprehension.

New-York, March 23 .- The ship Comet, which took which is so destructive in England. It is a little iments will now show The plants sown during out from this port a Diamond, insured at one hundred thouse



## "COLUMBUS," AND THE "DELAWARE OX."

ders, a drawing of one. and an authentic account of the general treatment and weight of two of that we have now the materials for rivalling the the most remarkable Oxen to be met with in the best breeders of England and that if something market in the Sea Boat from French Town, annals of Husbandry.

10 Fore Rib; five Ribs

9 Leg

The drawing represents the form and common food and good managem nt. attitude of the larger ox. The plain herizontal line describes his length from the root of the horn to the tip of the rump The plain perpendicular line. his height on the shoulders. The dotted lines point out the manner of cutting up a beef, as practised by victuallers, and the figures in its centre, refer to the proper technical name of each piece. We have been thus particular, for the sake of giving a fattern, which it was supposed might be useful as a guide to house-keepers, especially those in the country.

These oxen were fattened by Mr. John Ban-N Y. at Port Penn, on the Delay are river an experienced and enterprising grazier from England -and it is ay be added, one of those foreigners who come to enjoy and to be grateful for the blessings of our country. By the examples of such men, moving in the useful and unostentatious spheres of life, our country is amply repaid for all the advantages which tempt the emigrant to our shores.

The first and not the least agreeable fact that occurs, in the history of Columbus, the larger ox, is that he was bought promiscuously, in a drove of common cattle, at West Chester in Pennsylvania in 1817, and that, for all that is known to the contrary, the stock from which he sprang, was imported by the first European settlers of America—hence, the conclusion is established, that at least this family of the animal kingdom, does not deteriorate undert he continued influence of our soil and climate.

We have the satisfaction to present to our rea- | port our stock cattle from Europe; but this opinion begins to be superseded by the conviction

> Columbus was four years old when he was purchased by a r BARNEY and had be in reared thro' the summer on upland pasture; fed in winter, in an open shed on clover hay, and was said not to have eaten six oushels of grain up to that timesince which, his treatment has been as follows:-

First Summer-Pastured with other cattle and are nothing but grass

First Wister-Commenced in December, giving him from four to e ght quarts of Indian meaper day, mixed with same quantity of Ruta Baga sometimes called Russian or Swedish turnip and small and f-equent supplies of upland hay

Second Summer -- Turned out with his other cattle and experienced the same treatment, as the preceding summer, until the milk began to dry in the corn, when he commenced throwing to him from the field, about 16 cars per day stalks and all, until the corn became hard enough to grind; this brought aim on to the

Second Winter-When he was driven back to his stall, and again kept on Indian meal and Ruta Baga; of the former from 12 to 16, of the latter from 3 to 1. quarts per day, with good upland hay until the 8th day of March, when he ar rived in this city.

THE DELIGHTER OX

Was acknowledged by all who san him, to excoed in beauty of countenance. limbs, colour and fine proportions any animal of that kind ever exhibited in this market

He was of the Holstein breed; imported by Mr Hitherto it has been thought necessary to im- WALL, of Philadelphia; was of the same age of

Columbus, reared together for the last two years, and treated in the same manner, except that his allowance was a few quarts less per day

In reply to our enquiries on that point, Mr. BA NEY informed us, that by watching the appe-.ite of these oxen and carefully regulating their meals according to the weather they were kept al ay- in good health seldom failed to eat their allowance and were never surfaited.

He considers, that in the means of fattening cartle this country possesses in its Indian Corn, an advantage over England, for which she has no adequate substitute. He gives the preference to Indian meal over every other species of food for fattening either sheep or cattle, and gives it in 1 s dry unsifted state But he is clearly of opinion, that a much less quantity of meal will answer, and that it is eaten with a better appetite. when used in conjunction with the Ruta Baga; of this root he has the highest opinion, concurring with Mr Cobbett in the belief, that it is sweeter and far more nutritious than any other root or vegetable used for feeding live stock.

It would be necessary, however, to an understanding of the system and the means by which the feeder of these oxen has attained such emirence and success as a feeder both of Cattle and of Sheep, that the reader should know something of the extensive advantages derived from the local situation, quality and growth of his land. These, with some other particulars, relative to the management of his farm, and large stock of sheep and cattle, we must reserve for a subsequent num-Ber when we shall speak more particularly of his sheep, their breed, qualities and treatment.

The two oxen in question, were brought to this depends upon blood, much more depends upon and as the fact, though apparently trivial in itself, is a constitutional one, as relates to them we shall be excused for stating, that it took them three days to travel from Port Penn to French Town; and the last day they could only be travelled 31 miles

> They were both sold to Messrs. G and J. Rusk, Vietuallers in this market, and by them slaughte ed on the 18th day of March-the prime pieces were sold for 50 cents per lb!

> heir weight and dimensions ascertained with great ar and exactness, here follow:-

with Sivat at and exac	
COLUMBUS.	DELAWARE OX.
WEIGHT.	WEIGHT.
AL VE 2962	Alive ::688
Head and tongue 241	23
Feet 26	$ 22\frac{1}{2}$
i.ver 18	
lleart 10	$ 10\frac{3}{4}$
Lights 10	11
Rough tallow 21 -	$ 278\frac{1}{2}$
rlide $1.54\frac{1}{2}$	101
Blood 94"	$ 65\frac{1}{3}$
Other offal weigh. 2221	198
783 <u>1</u>	731
Nett beef 2090	1811
28701	2 S21/2
Loss unaccount - 85½	105½
2962	2688
Loss on live 29 44 per	ct. 31-15 700

## MISCELLANY.

PRINCE GEORGE'S COUNTY.

To the Editors of the National Intelligencer. GENTLEMES-We freque, thy see in your paper a good deal said about the produce of an acre of land; the weight of a pumpkin, turnip, radish, &c. but I have seen no notice whatever, taken of the products of that section of country immediately adjoining the District of Coumbia, to the east.

Prince George's is not a large county, and it may be correctly stated, that the article of tobacco alone, was sold last year by the planters of that county, for nearly a million of dollars; more than six eighths of which Receipts of cash in the years 1814, 1815, was made in the space of less than twenty miles square, and of this there is not the one-twentieth of the land cultivated in that article.

and those who stripped it, have not made less than a clear profit of 20 or 25 per cent. It may not be improper to insert the above in your paper, as it may serve to correct the impressions of strangers visiting the seat of the national government, and shew the country to be not so poor and unproductive as it is generally believed A PLANTER.

One word of commentary on the above. Let the planters of Prince George's reflect how much the prices of their lands have been raised by an unprecedented advance in the price of tobacco, which may not last many years; then let them consider that by improving their waste lands, how soon they could double the present fertile portions of their farms, in that case, tho' tobacco should suddenly fall to seven or eight dollars, their estates would still be intrinsically as valuable as they are now. Let every planter look around him, and calculate what proportion of his five, six, eight hundred, or a thousand acres is arable and rich enough to pay an interest on the capital invested, and the labour of cultivation, and compare it with the capital lying dead in waste unproductive land!!

It s true, however, that there are few counties pos sessing more solid wealth-few whose exports more exceed their imports - and very few in a state of more rapid improvement; still there is in that county a great portion of waste land, and not a little which is cultivated without skill or economy .- [Ed . Im. Farm.]

Society for the promotion of the Ussful Arts. on specimens of wollen cloth of domestic manu received. facture. Sixty two specimens, from different counties, had been received. The first premium of \$90, was adjudged to Isaac Ogden, esq of Delaware county; the second, of \$80, to Vincent Reid, of Saratoga county; and the third of \$70 to Samuel A Law, of Delaware county.

Returns of the quantity of cloth, from the clerks of counties, presented for premiums before the respective judges of county courts originally granted for a total disabilily, in consehave only been received from the following, viz.

			•	20
Herkimer	-	-	-	39 gards.
Onondago	-	-	-	76 1-2
Albany -		-	-	228
Kings -	-	-	-	79
Ulster ·	-			110
Madison -	_	-		352
	-	_	_	104
Mo tgo ery	-			164
Orange -	•	-		183
Jeff' son	-	-	•	137
(neene -	-	•	-	
One da •	-	-	-	270
Suffork -	-	•	-	150
Sullivan -	-	-	-	110
Rensclaer -	_		-	105 1-2
Reliseraci				
		Total		2168 yards.

The good government of our appetites and corrup inclinations, will make our minds cheerful and easy, Contentment will sweeten a low fortune, and patience will make our sufferings light.

#### STA EMENT.

Post Office, from the 1st day of Jan. 181:, to

the 1st day of January, 1819. Cash remaining on hand, unexpended, Janu-**S**71,264 94 ary 1st, 1:14,

Cash received in the year 1814, \$540,906 37 1815, 643,443 97 do. 1816, 759,743 33 1817, 722,232 74 do. do. 1818, 711,880 69 do.

3,378,207 10 1816, 1817, and 1818,

3,449,472 04 It is generally believed, that those who purchased it, Expenditures in the year 1814, \$545,215 88 512,214 90 do. 1816, 601,330 14 do. 559,501 13 do. 1817, 729,137 70 1818, do. 3,057,399 75

> Payments made to the Treasury during the same period, 379,540 44

Aggregate of expenditures and monies paid into the Treasury for five years, ending 5,436,740 19 January 1, 1819, Leaving a balance in the General Post Of-S12,731 85 fice, on the 1st day of Jan, 1819, of

The aggregate amount of net revenue, from the origin of the establishment up to the 1st January, 1818, as far as the same has been ascertained, after deducting the compensation to postmasters, cash paid for the transportation of the mail, and all contingent and incidental expences, is estimated at \$1.588.264; the aggrega c of payments into the Preasury amounted on the first day of January, 1819, to \$1,181,728, leaving \$400,530, which constitutes a part of the outstanding debt before mentioned; the net revenue being stated from the quarterly returns of the postmasters, and not from the balances actually received at the Albany, March 19 .- On the day prescribed by General Post Office. The net revenue for the law, the Society for the promotion of useful arts, year 1818 is not ascertained, the quarterly reproceeded to examine, and award the premiums turns of the postmasters not having yet been all \$4 33 1.3; one fourth do. \$3 25.

There are now in the U.S. 3,600 Post Offices.

## WAR DEPARTMENT.

Pension Office, March 23, 1819.

An Act of Congress of the third of the present month, requires that an examination shall be had biennially of all Invalid Pensioners of the United States except where the pension shall have been quence of the loss of a limb. or other cause which cannot cither in whole or in part be removedexcepting also, those invalid pensioners of the revolution, who have since the passage of the law of the 18th of March, 1818, availed them selves of the provisions of that act.

Notice is therefore given, that the subjoined blank form of a certificate for the examing physicians or surgeons. is hereby directed to be observed in all cases embraced by the law of the 3d instant.

The annexed statement showing the amount of pay for each grade of pensioners, according to the ratio of disability, will enable the examing physicians or surgeons, to ascertain, by referring to the certificate of pension, the degree of disability for which the pension was originally granted.

J. C. CALHOUN. Approved, Sec'ry at War.

We the subscribers, practising physicians for Of the Receipts and Expenditures of the General surgeons, as the case may be of the town [country or city of - do hereby certify, that, alter a careful examina ion of the case of — who is now on the Pension Roll of the State of - we are of opinion that his disability does still or not. as the case may be continue. Here describe it

And further, that the degree of disability under which he labours at present, is one half, onethird, as the case may be being [here state the degree or insert the word not less than the original degree of disability for which he was placon the pension roll.

Sworn and subscribed to before me? A. B. -this---day of ---, t certify that the deponents are cre-A. B. dible persons.

A STATEMENT, shewing the amount of pay for each grade of pensioners, according to the ratio of disability. LIEUTENANT COLONEL.

Total disability, \$30; three fourths do. \$22 50; two thirds do. \$20; one half do. \$15; one third do. \$10; one fourth its. \$7 50.

Total ansability, \$25; three-fourths do. \$18.75; two thirds do. \$16.65.2-3; one half do. \$12.50; one third lo S8 33 1.2; one fourth co. 86 25.

CAPTAIN. Total disability, \$20; three fourths do. \$15; two thirds do. \$13 3 1-3; one half do. \$10; one third do. 85 66 2-3; one fourth do \$5.

FIRST LIEUTENANT. Total disability, \$17; three fourths do. \$12.75; two thirds do. \$11.33.1-3; one half do. \$8.50; one third do. \$5 66 2-3; one fourth do. \$425.

SECOND LIEUTE TANT. Total disability, \$15; three fourths do. \$11 25; two thirds do. \$10, one half do. \$7 56; one third do. \$5; one fourth do. \$3.75.

THIRD LIEUTENANT. Total disability, \$14; three fourths do. \$1050; two thirds do. \$9331.3; one half do. \$7; one third do.

\$4 66 2-3; one fourth do. \$3.50 ENSIGN. Total disability, \$13; three fourths do. \$9 75; two thirds do. \$8 66 2-5; one half do. \$6 50; one third do.

Non-commissioned officer, musician, or private soldier. Total disability, \$8; three fourths do. \$6; two thirds do. \$5 33 1-3; one hall do. \$4; one third do. \$2 66 2-3;

one fourth do. \$2. Aote. The highest pension is the half pay of a lieutenant-colonel. All grades below that rank, and not in ctuded in the above table, receive allowances proportionate to their monthly pay.

A Receipt for Cleaning Paint, which has been repeatedly tried with soccess; 1 lb. of soft soap-2 oz of pearl ash-I pint of sand-and one pint of table beer.

Simmer the above in an earthen vessel;—be particular that the ingredients are well mixed; put a small quantity on flannel; rub it on the wainscoat; then wash it off with warm water and afterwards dry it thoroughly with a linen cloth.

It is one of the most important results of chymical science, that the various productions from the distillation of coal, amount to more than six times the price of the original article. A chaldron of New Castle coals, which costs about 31. will produce:

will produce:  1 1-4 Chalurons of Coke, at 31s. 12 Gallons of Tar, ot 10d. 18 Gallons of Ammonia Liquor, at 6d. 20,000 Cubic feet of Gass, at 15s. rer 100	0	18 10 9	3
cubic feet.	15	0	0
	18	17	9

#### AMUSEMENT.

## SKETCH OF ENGLISH MANNERS.

EXPOSURE TO SERVANTS.

There is an old French saying which informs us that no man is a hero to his valet de chambre to have known France during the ancient regime, before the Revolution, and I can bear testi-

sense of our interest. The other orders of nubility and gentry, the votaries of haut ton and fash-Many employed a very humble secretary, sprung from the lower order, to write their letterseven their billets deux, assignations, proposals, &c. and soit dit en passant, some of the half edu-&c. and soit ait en passant, some of the man each dutiful and clamorous creditors. Signed as usual.

Cared. giddy young nobility, wrote such bad "P. S. Tell Bishop I have sold the brace of pointers French, and worse orthography, that a proxy writer was necessary for the sake of putting his master decently upon paper

By this means however, their debts, their intrigues their weaknesses and follies, were quite laid open, to their domestics, who sooner or later betrayed them. A certain prince of the blood knows what he confided to Blondin; and many nobles were still worse treated. Some were literally sold: and were the victims of their own in-

credulity in this respect.

What led me particularly to this subject was, a scape-grace nephew of mine having dropped a letter intended for his "own man," as he is com monly called. He had forgotten to seal it, being frightened by the voice of a dun, which induced perhaps latigued with his journey, left this lacohim to slip out of my garden gate in the country nic entry: and to order his horses round: after which he cantered off for a snug retreat of his own. The letter was verbatim as follows, and addressed to his servant, at his town house:

THE LETTER.

"John Thompson-I write this to inform you that I have left my uncle's house. The damned jeweller called there, and it is too hot to hold me any tonger. I had given the porter a crown, with orders to say that if any one called, I was gone to Rangate; but the fellow is a bungling rascal, and not used to town work. Should

\* \* \* \* call in town, swear to him that I have taken a trip to France for a few months. You must tell Bishop to take the bay horse, got by Goldsmith, from the straw-yard; and he is to make him up and sell him. I am convinced that I have overworked him, and that his wind is touched. If this be observed by the buyer, Bishop [his head groom, another confident !] must swear that it is nothing but a triffing cough. You'll be glad to hear, that I have got rid of the filly, and of the brown balance horse. The filly is as vicions as hell, and would have broken some of our necks. I sold her to a Portuguese. The horse looked uncommonly well; his coat was like a looking glass. So much for care and antimony! He fetched a hundred and fifty; and an't worth a damn'— Tell this to Bishop, he'll hardly believe it. If Mary Williams comes plaguing me for money give her 5 pounds, The only difference I find is, that there are more who but tell her that it is useless to be thus troublesome; swear that I am abroad; that it is in vain to call any who buy books of Devotion than read them." more, as you must give her to understand that I will do no more for her. I am quite tired of the girl; and I wish somebody eise would take a fancy to her. Apropos, you must now that women for lines the words for lines the word must pay that woman for linen. her account is exhorbi- again to deal unto you another card of the same sait; for

sed. I mean to provide for her, and if she receive my letter well, confide to her where I am, and furnish her with the means of coming to me. Speak very highly of me, and I will reward you handsomely for it. I am quite short of clothes; having only twelve pair of trowsers and twenty waistcoats; one black, and one mixture coat, besides the two tunies. I look horridly in the olive brown tunic. It makes me as sallow and bilions-look-I happened to have been long enough in the world ing as the devil. I only tried it on. I wish that Allen p result in life, wherein the truth of that saying is more me, before the Revolution, and I can bear testi-wants a tunic in a great hurry, Allen can swear that this soil.

mony to the truth of this maxim in that country, one is just made for my lord so and so; and if it fit the The princes of the blood and the haute noblesse spoony, he can take it off his hands; otherwise I must by inheritance to ample fortunes, patient of labour, at that time, put a great deal of confidence in their servants. They treated them with a good-horse is a damned scoundrel. He thought to do me; under the sheriff's hammer; all for want of skill in "the ness and familiarity which is not known in colder but I'm more of a dealer than him! The greenhorn, who and more prudent England, where a sense of pro-bought him of me, is just emerged from Westminster, priety is the effect of reasoning combined with a and I make clear sixty guineas by the transaction. I send industry, but of what avail is mere passive industry, by the carrier the last two pair of dress pantaloons: they must be altered. You know that I am a little what vigorous and full of animation, yet if he be blind, leave is vulgarly called baker-kneed, which I explained to the him without a guide, and he will soon shrow himself ion, naturally imitated the highest ranks. Every German fool who made them. A pad would remove the over the cliff or plunge into the dock. one had a confidential valet. Some had more defect. What an ass a tailor must be who can't fit a man well, be his deformities what they may! Appropos—1 must have six new pair of stays by the time I re-turn, and six pair of spurs from Vincent's. Long's is a devil of a bill-but it will never be paid. 1 do not re- has proved to be the best, under given circumstances; collect any thing else, only keep peace among my un-

> for fifty guineas. Don't cost me half that sum. I bought main but as so much dead capital in the hands of their them of Sir George. The lean dog an't worth a guinea, proprietor. and never cost me but three; so I don't lose there.

shall remit you money in a post or two.'

The Hermit in London.

#### EPIGRAM.

At the Inn of Bethkellert, at the foot of Snow den, is an album in which many a young traveller has tried to flutter his unfledged poetic pinions on a summer evening. Dr. B. unwilling to pass the elmerican rarmer win be conducted on the and on a summer evening indecorous or perthrough so interesting a country without leaving sonally offensive to the feelings or character of any sect some memorial of his having done so; but having or individual. And further, that if at the end of the oeen perhaps disappointed of an interview with any of the coy nine on the Peak of Snowden, and his subscription money shall be repaid to him on de-

"Dr. B.-k stopt the night." This produced the following or something like it: "In scripture we are told, That Joshua of old

Stopt the day, while he thrash'd the Philistines: Here all Wales was in a fright-Dr. B-stopt the night,

Whilst he staid to refresh his intestines."

The following address from the mayor to queen Elizabeth, is a model of simplicity & elegance .-Her majesty's answer is in the same spirit, and cannot be objected to on any other ground, than its being borrowed from that to which it is a reply

We men of Coventry, are very glad to see Your gracions majesty : Good Lord! how fair you be!

ANSWER.

My gracious majesty, is very glad to see You men of Coventry : Good Lord what fools you be ! It were well if all authors of fulsome addresses could receive such candid answers.]

Love and devotion .- The agreeable Menage has this acute observation on the writings of Love and Devotion-"Books of Devotion and those of Love are alike bought.

#### BALTIMORE:

FRIDAY, APRIL 2, 1819.

#### TO THE PUBLIC.

It was observed, by a man proverbial for his wisdom, that "knowledge is power:" and there is perhaps no would take it back: lct it lie for a day or two on his counter; and to the first Johnny Raw of a fellow who and fortunes of those, who live, by the cultivation of the

How often does it happen that young men, coming under the sheriff's hammer; all for want of skill in "the management of their resources;" for want of that "knowledge which is power." Much, it is true, depends upon without judgment to apply it? like a fine horse, spirited,

The great aim, and the chief pride, of the "American Farmer," will be, to collect information from every source, on every branch of Husbandry, thus to enable the reader to study the various systems which experience and in short, to put him in possession of that knowledge and skill in the exercise of his means, without which the best farm and the most ample materials, will re-

Besides articles on the main subject of the paper, it will present original and selected essays and extracts calculated for amusement or instruction, and substantial detail of passing occurrences-and, finally, it will contain a faithful account of the actual prices of all those principal articles, which the people of the country gene-

But, as the Editor is aware that "to promise is most courtly and foshionable," he will therefore only add, that the American Farmer will be conducted on broad and year, any subscriber should think he has not received his penny orth," he shall be at liberty to withdraw, and

#### TERMS.

The price of subscription is \$4 per annum; payable \$2, half yearly, in advance.

All Postmasters are authorised and requested to receive subscriptions and to retain 10 per cent. on the amount collected for the Editor.

The Editor has taken the liberty to forward the first number of the American Farmer to some gentlemen whose names occurred to him at the moment, and who be thought would be likely to patronize a work of this kind.

He begs, that, if they approve of the plan of it, they will make it known, and by any convenient means assist in extending its circulation.

The Editor will be highly gratified, if, by devoting his leisure hours to a publication of this sort, he can be instrumental in preventing his native state, from being outstripped by all her neighbours, in the honorable contest for the promotion of agriculture, manufactures, internal improvement and domestic economy.

He entreats the correspondence of gentleman qualified by study, reflection, or experience, to add even one ray of light to the common stock of intelligence on these all important subjects.

From all appearances the remaining numbers of the American Farmer are likely to be soon called for, so that those who wish to have complete files would do well to make early application.

BIP Note .- The subscribers to the American Farmer, are respectfully referred to the advertisements of seed, in this paper, implements of Husbandry, &c.

tant; but never mind, there is a very pretty girl who they be of so wigh affinity, that one cannot be well played that when they wish to procure any thing in this way, if they choose to inclose him the money, with specific

directions, he will cause them to be purchased and torwarded to them, without any charge whatever.

Authors of all new inventions; particularly those connected with Agriculture and Domestic Gronomy, may here make known their discoveries, and to have them better exemplified by cuts, the Editor will even pay the expense of engraving, Inccessary.

A small portion of the American Farmer, will be open for advertisements relating to Literature, Useful Inventions, Sale of Lands, Live Stocks, Seed, Farming Utensils, &c. For these, a charge will be made at the rate of \$1.50 per square for three insertions.

NEW DISCOVERY IN THE ART OF MAN-KILLING. -authors'tip disput d -- claimants -- Mr. Hall, Dr. Thornton and Markall Saxe-compromise proposed.

We are told, in a way that makes it impious to doubt, that man,-proud, vain boasting man, is made after God's own image, and elevated in the scale of reason and dignity, to an immeasurable altitude above every other

created being: yet if we search through the whole range of the animal kingdom, we find no one family so incessantly and maliciously engaged in destroying each other, as the family of mankind. From the days of David and of Moses, to the present hour, nothing has so intensely exercised the genius and the heart of man, as the study to devise some hing new in --- the art of man killing.

With all or pretended benevolence, the most renowned, and the most honored of the species, have always been those who have been most successful in the game of human slaughter The benedictions of the church and the shouts of the populace, have attended, in all ages, the most profuse spiliers of human blood; and, up to the present moment, with all our boast of the exclusive possession of reason, and our professions of picty and pretensions to benevolence, there can be no doubt, that he who should discover the philosopher's stone itself, could not more readily command all that is esteemed necessary to constitute "the good things of this life," than he who should invent a warlike instrument, which by a single discharge, should with certainty, destroy at the greatest distance, countless thousands of his fellow beings, not one of whom might have ever seen or personally injured him!!!! What man so pious, who would not avail himself of the worldly advantages he could derive from such an invention ! Some, there may be, but perhaps there are not many.

We must not be understood as throwing out these suggestions to repress the spirit of invention, or with the idle hope of eradicating the love or the practice of war; -as well might we expect the thesapeake to remount to its source : we do it to exhibit to human pride and self sufficiency, the picture of human dignity and henevolence; & because it is peculiarly within the scupe of our undertaking to notice all new inventions. We have hastly traced a train of thought which grew out of the contest between Messrs Hall and Thornton, for the honor of a late discovery, in this grand art of anticipating Provi-

dence in the destruction of human life.

The Editors of the Federal Republican, complimented Mr. Hall in very handsome terms, and claimed for him the liberal patronage of the government very justly—provided his claim, as inventor, be well founded. Doctor Thornton the keeper of the Patent office, however, says the idea first sprouted in his brain, was cultivated, engrafted upon, and improved by Mr. Hall, and that they agreed to make it the "child of two fathers." But to render this anomalous bantling of two fathers still more extra ordinary, a writer in the National Int lligencer of Tuesday last, avers, that it came into the world before either of its reputed sires; he avers it to be an off-pring from the military lobe of the renowned Marshal Saxe's cranium-But may we not, in charity compromise the dispute about this weapon of death, by supposing it to have been the separate and independent growth of three congenial minds, exercised, without concert, upon the same subject -- as so many similar sparks struck from the flints of the same quarry?

The writer in the Intelligencer supports his impeachment of the claims of Messrs. Hall & Thornton, by the following extracts from the reveries or memoirs of the said renowned Marshall Saxe-published in London

early in the last century.

" Of the Legion."

Page 30 .- " The light armed foot are in like manner to be supplied by their respective regiments, the centu-

rions electing the youngest and most active: their arms must consist of nothing more then a very light fowling piece and bayonet with a handle to it, which will at the same time answer the purpose of a sword; this fowling piece is to be made so as to open and receive the charge at the breech, in order to avoid the inconvenience and loss of time in ramming it down."

" Of the arms and accoutrements for man and corse."

Page 48-" The men arc to have \*rifled carbines, which carry much further than any others, and are more easily loaded, as the ramming down of the charge will be avoided which is very difficult to be performed on horseback: the bore of the barrel must be narrow, which will increase the violence of the ball in its discharge."

" Of Small Arms.

Page 78 - 'I have alone recommended the rifled fusee, as it is charged quicker, and carries not only further, but with more exactness. According to the present method of loading, the soldiers, in the tumult and hurry of an engagement, very seldom ram down their charge, and are also very apt to put the cartridge into the barrel, without biting off the cap, by neglecting to do which, many of the arms are of course rendered use-

"In order to obviate this mischief, I would have the charge farger than the muzzle of the pieces, that the men may not be able, through carelessness, to load that way : they should also be made of parchment, and pasted up at the tops which would be easily uncased with the teeth; and they ought to contain a sufficient quantity of powder for both the priming and charge; the balls are to be carried in the pouches, which, in action, the men are to take out by four or five at a time, and to hold them in their mouths, for the sake of more readiness in load-

ing"

This kind of carbine, by the assistance of a spring, opens at the breech, and, as has before been observed, receives the charge there. The barrel is also rised, on receives the enarge there. The parrel is also rined, on which account, and in order to avoid a circumlocution, that epithet only will, for the future, be made use of to express this entire piece of machinery."

#### GREENLAND.

That part of the fleet which was lately fitted out in England, in order to make discoveries towards the North Pole, has returned without accomplishing any thing very useful; it did not even penetrate, by three or four degrees, so far as some of the whalers had done before-But is was necessary to have something new to say, to keep up the curiosity of the public; accordingly, the commanders of the vessels tell us that they have discovered a new nation, or tribe of Greenlanders, never before known by other navigators. This new tribe, we are told, are a very happy people; they ride in whale-bone carriages drawn by dogs; they are comfortably clothed in bears' skins, and fed deliciously on the flesh and blood of bears and whales—in short, they are the hap piest people in the world, and think that the inhabitants of the southern regions must be very miserable, in consequence of eternal ice and snow; and, to crown their happiness, the sexes are extremely loving to each other, even surpassing the romantic ideas which we have formed of Arcadian love and felicity -- The author of this account having said, "that war is unknown in this newly discovered country, and that love only was present to them" gave occasion to the following lines, as it has always been understood, that, towards the North Pole, one half of the year is one continued day, and the other half all night, consequently, inferring, that with the Greenland lovers, the winter season must be to them the happrest part of the year.

IMPROMPTU,

Occasioned by reading a tale description of Greenland. O happy Greenland! Happy Swains! Who ne'er the deadly war-trump hear; Where gentle love triumphant reigns, And every night is-half a year.

QUESTION -Could not s one valves be fixed to gutters of houses and stores, similar to those used in Bathing Tubs. with a copper chain attached to the upper window frames that they migni be conducted into the leaden tubes in cases f fire, and thereby retain water thrown by engines?

A GREAT PUBLIC CONVENIENCE

Arrangements have been completed, establishing a regular line of packets between New York and Liver-These packets consist of the Amity, the Allison, the Courier, and the James Monroe; all recently built in New-York, of the best materials coppered and copper fastened, and proved to be very fast sailers.

One packet departs from New-York, for Liverpool, on the 10th, and from Liverpool for New-York, on the 1st of every month in the year, with as much regularity as the steam boats from our wharves.

The price of a passage to England, in the cabin, is forty guineas; for which sum passengers are provided with beds and hedding, wine and stores of every description.

Under this arrangement, any person, residing in any part of the United States, desiring to visit Europe, may calculate the time it will require to travel to New-York. so as to reach there the preceding evening, with a certainty of embarking the next day.

## Summary of Intelligence.

"A brief abstract and chronicle fthe times."

The hurry, necessarily incident in preparing and arranging for the first number of a public print, has precluded that attention to matter for this head, it is our intention hereafter to bestow upon it.

#### A PROPER MEASURE.

The City Council, by a Resolution of the 24th inst. have requested the Mayor, (advised by the Attorney for the corporation) to bring the question of legislative interference in city affairs, in such form before that body, as will lead to a full and express definition of the limits proper to be prescribed to the city authorities. Baltimore, is literally, at present, an incorporated city, with neither rights nor privileges! A constant, irregular and absurd interference in our local affairs by the legislature renders every thing attempted to be done by the city authorities, either as it regards improvement, revenue or order, uncertain in its continuance, and consequently of little avail.

Two Hundred Dollars have been placed in the hands of Bishop Kemp by Mr. George Elliot, the profits on the Bakewell Sheep, lately sold in this city, for charitable purposes. Fifty Dollars of the amount were bestowed on the Female Orphaline Charity School; and One Hundred and Fifty upon the Benevolent Society, for the education of female orphans. For the seventeen sheep on which this profit of 200 dollars was realized, it is said, Mr. Elliot paid 20 dollars each; but we shall give a detailed account of them hereafter-The fact is mentioned in the mean time, as "food for reflection" for the Farmers of Maryland. We are sorry to have to say, that the sheep came from-another state !

#### WORTHY OF IMITATION.

The Presidents of the severals Banks in Savannah, have offered a reward of Two Thousand Dollars for the apprehension and conviction of the person or person concerned in altering the bills of any of the banks in that city. If such were to be the practice acted upon by the other banks of the union, the probability is that a nefarious set of villains, prowling about the country, would very soon be driven to the necessity of seeking honest means for a livelihood. To the little interest perhaps taken by banks, or those concerned in them, or this subject, may be attributed the vast quantity of spurious paper money in circulation. While they profit by the community, it is but fair they should take some pains, and incur some hazard in order to screen tha community from evils ; particularly under present eir cumstances, when they alone concerned in these establishments, are almost exclusively the benefitted. It has been suggested, that the poor and the simple, ought no to be the sufferers, from their unlucky receipt of coun terfrit money-It has been said, and truly, and we cer tainly think justly, that were the wise and the rich, the knowing ones, those whose "mark" is law, made to in cur all losses occasioned by false paper finding its wa into circulation, that they would very soon find out the way and the means, to check an abuse, unparalleled pe haps in any country.

Naval General Order-By late Rules and Reg lations for the naval service. Midshipmen are to undergo an examutation before promotion. An examination is to take place on the 4th of October next, and none are entitled to the privilege, whose warrants bear date subsequent

to the 1st January, 1813.

The President, it is said, has directed a messenger to be forthwith despatched to Madrid, and Mr. J. H. Purviance, of the department of state, has been appointed

bearer of despatches on the occasion.

It is said, the Hon John Randolph has consented to be come again a candidate for congress; and it is said further, that he will not probably be opposed. In which case, if we, in vulgar phrase, have much juw, we shall also be turnished with a little attir seasoning.

A public dinner was given to Gen. Jackson at Win-

chester, Virg. on the 13th inst.

Our distinguished countryman, Col. Trumbull, has been elected a member of the Royal Academy of Naples.

Actual Sales of Country Produce within the last week; with remarks, for the more particular information of our country subscribers.

TOBACCO-May be quoted-second quality, from \$9 t 11; first do. from \$12 to 13 50. Ten hogsheads Erem Talbot County, sold yesterday for \$10-50 & 12-50, on a credit. This article has fallen in price and is dull sale---little selling for cash, though there is not much in the market.

WHEAT, RED -- From \$1 50 to 1 60, none in market of best quality---300 bushels, made by Mr. Robert Gam-

ble, of Kent County, sold yesterday for \$1 60.

WHEAT WHITE-\$1 55 to 1 60.

CORN-55 cents.

RYE 80 cents.

OATS --- 50 cents.

BEST BEEF- Retail 12 1-2 cents.

#### TO MERCHANTS AND OTHERS.

To l'aciditate correspondence between this city and England, a special mail, vill be made up at the Baltimore Post Office, at 4 o clock P M on the seventh day of every month for letters to go by the American Packets, which sail from New York for Liverpool, on the 10th day of eve ry month in the year.-The inland postage on such letters, must be paid at this office.

J. S. SKINNER, P. M. Balt.

REMOVAL-The Office of the late Maryland Censor, is removed from the corner of Water and Commerce-streets, to the south-west corner of Market and South-streets.

MARRIED,

In Baltimore, Mr. William Matthews, to Miss Emily Rose. Mr. W lliam Stansbury to Miss Ann Elender. Mr.

Frederick Rider to Miss Leonora Rabb.

In Montgomery county, Md. Mr. Basil Magil, of Baltimore, to Miss Amelia D. Griffith. At Bladensburg Job P. Heath Esq. late a captain in the U. S marine corps to Miss Elizabeth, daughter of col. Deakins. At Boston, Mr. Solomon Hopkins, merchant of Baltimore, to Miss Maria II. Coates, eldest daughter of Mr. John

DIED,

In Baltimore, Mr Christian Meyers, in the 17th year of his age; his death was occasioned by the accidental firing of a gun. In Pempey, N. Y. Isuac Baldwin, E-q. in the 66th year of his age. He was acting adjutant under col. Butler at the famous massacre of Wyoming. and was one of the few who escaped the fury of the savage tomahawk and scalping knife. At his residence in Braudy-wine town hip, Penn. Mr Joseph Coffey, aged about 85 years. At Laurens, Otsego county, N. Y. Mr. Jeremiah Jenks, aged 89 years. He never employed a physician until the day of his death. The day before he died he was able to walk two miles without help lo Pennyroyal, Mrs. Mehitable Marybone, aged 47. She for other Seeds.

had for some time Previous to her death laboured under a sort of mental derangement, occasioned by being abandened by her lover, a young gentleman of 20, who had taken a strong fancy to her charm, in the shape of a large and valuable farm. It seems the gentleman had recentail the pains and mortifications of disappointed love, others doing only the same execution, run six. she languished a short time, and died, "heaping coals of fire" upon his ungrateful head—by willing to him her fortune !

#### Agricultural Repository,

For Seed, Gooks, Implements of Husbandry, &c

P. CASEY, No. 2, Hanover Street, ad P. CASEY, No. 2, Handler Server, "
joining Mr. Gabsby's thotel, has received from d fi rent parts of Europe, (where they could be best pro-

THE FOLCOWING

## Seeds and Flower Roots, viz.

20 varieties of Cabbage Seeds, including those which Cobbett mentions in his last 6 Month's Resi dence

6 varieties of Brocoli and Cauliflower Seeds, adapted to the climate of this country.

6 do. of Beets, two sorts of which are a very fine Spinach, and a substitute for Asparagus.

8 do. of Lettuce, two sorts of which sell in Europe for 12 shillings sterling per ounce

6 do. of Radishes (very beautiful) do.

6 do. of Turnips. -Other varieties too numerous to mention

Also a numerous variety of

FLOWER SEEDS, made up in small packages, amongst the latter is carnation. Pheasant eyed pink; and Auri cula at 25 dollars per oz. The above are all genuine and adapted for all parts of the union.

To close the saies of his Flower Roots, he will sell the fol-

lowing Roots at reduced prices, viz.

Double Anemonies, of sorts Ranuuculuses, scarlet and Persian, do

 $\mathbf{D}\mathbf{o}$ Tulips mixt

Carnation Tulips Dο

Yellow Rose Do Do

Best Dutch single Tulips Parroquet. Do

Polyanthus, Narcissus, and Tuberoses.

What we admire, we praise; and when we praise, " Advance it into notice, that its worth " Acknowledged, others may admire it too."

#### JUST PUBLISHED.

## A Farmer & Gardener's Hive.

Showing the expense and profit attending the cultivation of 300 acres of land, and so in proportion for any other quantity, with a table directing the proper quantity of different sorts of seed or grain necessary to be sown on an acre of land, either for drill or broad cast husbandry-To which is added, a Farmer and Gardener's Callendar, showing what is necessary to be done on the farm and in the garden for every month in the year; with many valuable recipes necesary for the farmer in cultivating his land and proteeting his fruit trees from all sorts of diseases, insects,

AGRICULTUITAL SEEDS, such as Clover, theren' to the arts of designing, engraving, and extraoring the benefits T mothy, Flax, Orchard, etc. bought or exchanged therein's to the arts of designing, engraving, and extraoring the benefits to the arts of designing, engraving, and extraoring the benefits are therefore to the arts of designing, engraving, and extraoring the benefits to the arts of designing, engraving, and extraoring the benefits are therefore to the arts of designing, engraving, and extraoring the benefits are the property of the arts of designing the benefits are the property of the arts of designing the benefits are the property of the arts of designing the benefits are the property of the arts of designing the benefits are the property of the arts of designing the benefits are the property of the property of the arts of designing the benefits are the property of the pr April 2

To Agriculturists, &c.

STEWART & SON, respectfully inform their friends and the public, that they have on hand, ond offer for sale, a general assortment of Agricultura, ly congrated from the east to the west, and was inclined Implements, among which is the celebrated Screw mould to embrace the first matrimonial speculation that offered.

board Plough, which has been so much approved of by On learning the weight of Mrs. Maryhone, he made viosome of the best farmers in this county, both for its lent professions of attachment; and, as love begets execution and ease to the horses, which has been ascerlove, she played true to his false and lost, of course - tained to a certainty by a steel and constructed expressly her heart! A more eligible match being proposed to for the purpose. The Screw mould board Plough run-him, our amorous swain abandoned his dulcinea to using only four hundred weight to the horses, whilst

> Those who have not had an opportunity of judging of the superiority of this useful implement, would do well to call at their Factory, on the Philadelphia road, near the Columbian Gardens, where the following articles are likewise manufactured: Machines for sowing clover and timothy seeds; ditto for planting Indian corn at any required distance; Turnip drill machines; Drilling and Horse-hoe Ploughs; Harrows, of all kinds; Hay and Dung Forks; Picks and Pick-axes, Iron Axletrees for wagons and carts; and all kinds of iron work done en the shortest notice, and on the most reasonable terms.

4t

## Fresh Garden & Flower Seeds.

FINIE following imported Sceds were selected by one of the first Gardeners in the country, who went to Europe expressly for the purpose. Likewise, are received, an assortment of the celebrated Shaker's Seeds.

Among them are the following, viz.

15 kinds of Beans, 6 ditto Radishes, 7 ditto Peat, 7 ditto Cucumbers, 20 ditto Calibages, 9 ditto Lettuce, 6 ditto Turnips, 3 ditto Onions ; Asparagus, Celery (solid) curled Parsley, Garden cresses, round and prickly Spinach, Sweet Marjoram, Mangel Worzel, Salsafy, or Vegetable Oyster; Cauliflower, Carrots, Melons, &c. 100 kinds of Flower Seeds. Also, the Gentleman and Gardener's Calendar, containing full instructions respecting Gardening, for sale at No. 223 t-2, Market street, opposile the Farmers' and Merchants' Bank.

April 2-8t.

## Flower and Garden Sceds, &c.

UST received by the Belvidera from England, a fresh and excellent assortment of garden and flower seeds and roots, which, with the stock already on hand, renders my assortment complete. As time is fast approaching to use those articles, persons in want will find it to their advantage to supply themselves in time, by calling at my Nursery and Flower Garden, N. Lexington street extended, or at Nicholas Bonnefin's, No. 18, Com-T. B. BASTIAN.

April 2-4t.

District of Maryland, to wit.

BE IT REMEMBERED, That on this nineteenth day of March, in the Forty-third year of the Independence of the United States of America, Joseph P. Casey, of the said District, hath deposited in this office the title of a Book, the right where of he

claims as Author; in the words following, to wit :"The Farmer's and Gardener's Hive, showing the expense and profit attending the cultivation of three hundred acres of land, and so on in proportion for any other quantity; and the work necessary to be done on a Farm and in a Garden, for every month in the year. Also, a Treatise on the Cultivation of the Peach. To which is added, a number of Recipes, to protect all sorts of Fruit trees, Vegetables, &c from all sorts of liseases, insects, electricity; and to insure an abundant crop of iruit. For all states in the Union

In conformity to the act of the Congress of the United States, intitled, "An act for the encouragement of learning, erc. Also to preserve sheep from the rot, to make poul by securing the copies of maps, charts, and books, to the try Li eggs, make good cheese; to ensure an abundant authors and proprietors of such copies during the times therefore of grapes, apples, pears, peaches, gooseberry in mentioned." And also to the act, entitled, "An act supand currants; and to protect vegetables of every des- plementary to an act, entitled, "An act for the encourageecuption from catterpillars and other insects—to be ment of learning, by securing the copies of maps, coarts, and had at his seed store, with his signature annexed—Co books, to the authors and proprietors of such copies during by right secured according to law.

> PHILIP MOORE. Clerk of the Dstrict of Maryland.

#### POETRY.

There is something peculiarly sweet and soothing in the following: and as used from whence we gathered it. (following an account of the loss of a dear friend, drowned at sea.; extremely applicable and grateful.

#### AN EXTRACT.

EACE to his shade, who sunk to sleep, Where earth a sepulchre denied; Entomb'd beneath the stormy deep, And confin'd in the restless tide.

Without one kindred bosom near, Thy breaking heart's last wish to tell; Without one weeping friend to hear The last-last tones of life's farewell!

Oh! I had thought in future days, Our youth's fond friendship to renew; Had hop'd again with thee to gaze On scenes where bliss too sweetly flew.

But now !- the foaming billow's surge Hides thee from all who lov'd thee here; And their last greeting-is the dirge Thus wafted o'er thy watery bier.

Yet monldering in thine ocean grave, Though the broad sun rolls o'er thee ever; Though bursting thunders shake the wave, And ruthless time thy relics sever;

Still -still on earth thou hast a shrine, Where no rude storms can break thy rest; The tomb for such an heart as thine, Is-deep in each survivor's breast !

> Orfeila on Poisons Just published, at 140, Baltimore-street, DIRECTIONS,

FOR persons who have taken poison, and those in a state of apparent death, together with the mean of detecting Poison, and adulterations in wine. Also of distinguishing real from apparent death, translated by R. H. Black, Surgeon; with an Appendix on suspended animation, and the means of prevention. First American from the late London edition.

This work will be found useful to Practitioners Students and Families generally-12mo in boards price \$1 25. N. G. MAXWELL.

march 10.

AGRICULTURE.

THOMAS DOBSON AND SON, PHILADELPHIA, PROPOSE TO PUBLIS 1,

A new and important Agricultural Work, NATURE AND REASON HARMONIZED

PRACTICE OF HUSBANDRY,

BY JOHN LORRAN.

A Distinguished firactical Farmer.

A prospectus and contents of the work, in 2 vol octavo may be seen at No. 140, Baltimore-street, whe subscriptions are received.

N. G. MAXWELI

March 17. TO PRINTERS.

THE SUBSCRIBER informs the Printers g erally of this (ity and State, that he is agent Messrs, REICH, STARR, & Co. Type Founders, Ph delphia, and will receive any orders for type from the establishment, which for durability and beauty, is knowledged to be equal to any ever manufactured.

Orders from a distance, however trifling, meet with immediate attention.

WM. REDDING,

Corner of South and Market-streets, at the ffice of the " AMERICAN FARMER." April 2.

## PRICES CURBENT

AT BALTIMORE:

1	AT BALTIMORI		ern?	, 1
Ca	refully Revised and Corrected	cver	y Thurs	sday.
-	ARTICLES.		CTAIL P	RICES
3E	EF, Northern mess No I	bbl.	17	
	No 2		13 50	
	con,	lb.	16 18	20 5
30	tter, Ferkin ffee, first quality,		33	20 3
1	second do	1	27	28 "
Co	tton,		27 45	F
	Twist, No. 5, No. 6 a 10,		46	50
	No. 11 a 20,		53	80
1.	No. 20 a 30,		80 33	1 20
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Ch	eese, American,	lb.	10	15 1
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"	do. 4th proc	of	50	60
	do. N. England Rum, Jamaica,		1 50	
-	American, 1st pro-		7.5	i
١.	Whiskey, 1st pro- loap, American, white,	lb.	18	1
1,	do. brown, -	10.	9	
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D,	brown, loaf,		14 50	
1	lump,	lb.	20	a 25
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- 1.	Liverpool, ground, Shot, all sizes,	lb.	13	
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### RATES OF EXCHANGE.

OF BANK BILLS.

Corrected monthly for the American Farmer.

	United States' Bank, and Branches.	par
	Boston Banks	par
ŀ	NEW-YORK.	
l	City Banks	par
ł	NEW-JERSEY.	
l		par
l	renton, renarm, and	21-2 dis. 21-2do
١	mount from bridgeto and eco	2 1-200
ł	PENNSYLVANIA.	20.0
	Philadelphia,	par par
i	Stephen Girard's Bank, Chester, Easton, Harrisburg, Montgom-	-
İ	ery, Hulmeville, Germantown,	2 1-2 dis.
į	Carlisle Bank, Chambersburg, Gettysburg,	
1	York, Lancaster, and Columbia Bridge,	3∮ qo
١	Carlisle, (Agricultural)	nominal.
1	Bank of Pittsburg,	6a7 1-2 dis-
i	Westmoreland, Bedford, Brownsville,	:1
1	Meadville, Centre, Huntingdon, Milton	nomiaal.
	DELAWARE.	
1	Baak of Delaware,	1 a 1 1-2
١	Wilmington and Brandywine,	1 a 1 1-2
!	State Bank at Dover, and Branches,	1 a 1 1-2
i	Laurel,	50 dull
.	Smyrna and Milford,	8
1	DISTRICT OF COLUMBIA.	I dis.
ł	Georgetown Banks,	I dis.
1	Alexandria Banks, (excepting the Me-	I do
	Mechanics and the ranking.	20
1	Mechanics of Alexandria, Franklin of Alexandria,	50
	VIRGINIA.	•
	Bank of Virginia, Farmers' Bank, and	d)
5	Branches,	a { 1 1-2
3	Unchartered banks, various	7 1-2 a 25
Э	Saline and Parkersburg	no sale
5	NORTH CAROLINA.	
	State Bank and branches	6 1-2 dis
	Newbern and Cape Fear	7 1-2
	SOUTH CAROLINA AND GEORGIA	
	Bank Bills	2½ a 3 do
	RENTUCKY.	
	Old Banks,	nominal
	OHIO.	
	Chillicothe, Marietta, Muskingum, Ur	
	banna, Steubenville, &c.	15 a 5
0	Mount Pleasant, Montpelier, New Lis-) bon, St. Clairsville, &c.	dull
	bou, bt. Clairsvine, wo.	
	Gardeners Take N	otice

#### varueners Take

AND RENEW YOUR SEEDS!

British Seeds, Garden Tools, Books on Agriculture, Botany, & Gardening,

FOR SALE BY J. P. CASEY,

NO. 2. HANOVER STREET, ADJOINING GADSBY'S -HOTEL.

N addition to his stock of Seeds on hand, has received per the Frank'in, a large assortment of GARDEN AND FLOWER SEEDS; including Ruta Baga, or Swedish Turnip, Yellow Scarback, Red Ring, and Globe Turnip Seeds; Onion Seed that will exceed the size of these raised by planting the root in one season; best Durham Flour Mustard, &c.

These seeds are of a superior quality, and are not sealed up from the eye of the purchaser.

4t

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#### FOR JOHN S. SKINNER.

At the south-west corner of Market and South streets, BALTIMORE,

At four dollars per annum, payable in advance.

Subscriptions received by Postmasters, at this office, and by the Editor, at No. 8 North Calvert Street.

EBENEZER FRENCH, PRINTER.

# AMERICAN FARMER.

## BURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRETT.

" O fortunatos nimium sua si bona norint " Agriculas." . . . . VIRG.

Vol. 1.

## BALTIMORE, FRIDAY, APRIL 9, 1819.

Num. 2.

#### The Ruta Baga or Swedish Turnip. FROM COBBETT'S YEAR'S RESIDENCE.

(Continued from No. 1, page 2. )

QUALITY AND PREPARATION OF THE LAND. AS a fine, rich, loose, garden mould, of great depth, and having a porus stratum under it, is hest for every thing that vegetates, except plants that live best in water, so it is best for Ruta Baga. But I know of no soil in the United States, in which this root may not be cultivated with the greatest facility. A pure sand, or a very stiff clay, would not do well ceitainly; but I have never seen any of either in America. The soil that I cultivate is poor, almost proverbially; but what it really is, is this: it is a light loam, approaching towards the sandy It is of a brownish colour, about eight inches deep, then

becomes more of a red for about another eight inch es: and then comes a mixture of a yellowish sand and of pelbles, which continues down to the depth

of many feet.

So much for the nature of the land. As to its state, it was that of as complete poverty as can well be in-agined. My main crop of Ruta Baga was sown upon two different pieces. One of about three acres, had horne, in 1816, some Indian Corn Stacks, together with immense quantities of brambles, grass and weeds, of all descriptions. The other, of about four acres, had, when I took to it, Rye growing on it: but this Rve was so poor, that my neighbour assured me, that it could produce nothing, and he advised me to let the cattle and sheep take it for their trouble of walking over the ground; which advice i readily followed; but when he heard me say, that I intended to sow Russia turnips upon the same ground, he very kindly told me his opinion of the matter, which was, that I should certainly throw my labour wholly away.

With these two pieces of ground I went to work early in June. I ploughed them very shallow, thinking to drag the grassy clods up with the harrow, to put them in heaps and burn them, in which case I would, (barring the fly!) have pledged my life for a crop of Rura Baga. It adversely happened to rain when my clods should have been burnt, and the furrows were so solidly fixed down by the rain, that I could not tear them up with the harrow; and besides, my time of sowing came on apace. Thus sitvared, and having no laith in what I was told about the dangers of deep ploughing, I fixed four oxen to a strong plough, and turned up soil that had not seen the sun for many, many long years. Another soaking rain came very soon after, and went, at once, to the bottom of the ploughing, instead of being carried away instantly by evaporation. I then harrowea the ground down level, in order to keep it moest as long as I could; for the sun began to be the thing most dreaded.

In the mean write, I was preparing my manure There was nothing of the kind visible upon the place. But I had the good tuck to follow a person, who appears in to have known in the of the use of brooms.

By means of sweeping and raking and scratching in and round the house, the barn, the stables, the hen- I to be very fine, and which, when transplanted, made roost, and the court and yard, I got together about four hundred bashels of not very bad turnip manure. This was not quite sixty bushels to one acre for my seven acres; or, thr e gallous to every square rod.

However, though I made use of these begarly means. I would not be understood to recommend the use of such means to others. On the contrary, 1 should have preferred good and clean land and plenty of manure; but of this I shall speak again, when indeed, that all seeds should be pressed down, if the I have given an account of the manner of Sowing state of the earth will admit of it. and of Transplanting.

#### MANNER OF SOWING.

Thus fitted out with land and manure. I set to the ground up into li tle ridges having two furrows on each side of the ridge; so that every ridge consisted of four furrows, or turnings over of the plough : and the tops of the ridges were about four feet from each other; and as the ploughing was performed to a great depth, there was, of course, a very deep gutter between every two ridges.

I took care to have the manure placed so as to be under the middle of each ridge; that is to say, just beneath where my seed was to come. I had but a very small quantity of seed as well as of manure. where it was raised by a neighbour, on whom I with the importance of the object, that it is not to could rely, and I had no faith in any other. So that be believed, that any man will think it worth the I was compelled to bestow it on the ridges with a very parsimonious hand, not having, I believe, more than four pounds to sow on the seven acres. It was sown principally in this manner: a man went along by the side of each ridge, and put down two or three seeds in places at about ten inches from each other, just drawing a little earth over, and pressing it on the seed, in order to make it vegetate quickly before the earth became too dry. This is always a good thing to be done, and especially in dry weather and under a hot sun. Seeds are very small things; and though, when we see them covered over with the earth, we conclude that the earth must touch them closely, we should remember, that a very small cavity is sufficient to keep them untouched nearly to the preference. an round, in which case, onder a hot sun, and near the surface, they are sure to perish, or, at least, to ne long, and until rain come, before they start.

I remember a remarkable instance of this in sowing some turmps to transplant at Botley. whole of a piece of ground was sown broadcast.

My gardener had been told to sow in beds, that we might go in to weed the plants; and having forgotten this 'till after sowing, he clapped down his ime, and divided the plot into beds by treading very naid a little path at the distance of every four feet.

The weather was very dry, and the wind very keen. It continued so for three weeks; and, at the end of that time, we had scarcely a turnip in the olds, where the ground had been ber raked over, but, in the paths, we had an abundance, which grow, supply of manure.

part of a field which bore, thirty-three tons to the acre, and which, as a whole field, was the first I ever saw in my life.

I cannot help endeavouring to press this fact upon the reader. Squeezing down the earth makes it touch the seed in all its parts, and then it will soon vegetate. It is for this reason, that barley and oat fields should be rolled, if the weather be dry; and,

This mode of sowing is neither tedious nr expensive. Two men sowed the whole of my seven acres in the three days, which, when we consider the value of the crop, and the saving in the after culture, work of sowing, which was performed, with the help is really not worth mentioning. I do not think, that of two ploughs, and two pair of oven, on the 25th, any sowing by drill so good, and, in the end, so 20th, and 27th of June. The ploughman put the cheap, as this. Drills miss very often in the sowings of such small seeds. However, the thing may be done by hand in a less precise manner. One man would have sown the seven acres in a day, by just scattering the seeds along on the top of the ridge, where they might have been buried with a rake, and pressed down by a spade or shovel or some other flat instrument. A slight roller to take two ridges at once, the horse walking in the gutter between, is what I used to make use of when I sowed on ridges, and, who can want such a roller in America, as long as he has an axe or an augur in the house? Indeed This seed I had, however, brought from home, this whole matter is such a trifle, when compared smallest notice, as counted amongst the means of obtaining that object.

Broad cast sowing will, however, probably, be, in most cases, preferred; and, this mode of sowing is pretty well understood from general experience. What is required here, are, that the ground be well ploughed, finely harrowed, and the seeds thinly and evenly sown over it, to the amount of about two pounds of seed to an acre; but, then, if the weather he dry, the seed should, by all means, be rolled down. When I have spoken of the after culture, I shall compare the two methods of sowing; the ridge and the broad-cast, in order that the reader may be the better able to say, which of the two is entitled

#### AFTER CULTURE.

In relation to what I did in this respect, I shall take it for granted, that the reader will understand me as describing what I think ought to be done.

When my ridges were taid up, and my seed was sown, my neighbours thought, that there was an end of the process; for, they all said, that, if the seed ever came up, being upon those high ridges, the plants never could live under the scorching of the sun. I knew, that this was an erroneous notion; out, I had not much confidence in the powers of the soil, poor as it evidently was, and scanty as was my

The plants, however, ade their appearance wit great regularity: no fly came to annov them. The moment they were fairly up, we went with a very small hoe and took out all but one in each ten, eleven, or twelve inches, and thus left them sindly place ed This is a great point; for they begin to rob one another at a very early age: and if left two or three weeks to rob each other, before they are set set the plants out in this way was a very easy and quickly performed business; but it is a business to be left to no one but a careful man. Boys can never salely be trusted with the deciding at discretion. whether you shall have a large crop or a small one.

But now something else began to appear as well as turnip-plants; for all the long grass and weeds having dropped their seeds the summer before, and probably, for many summers, they now came forth to demand their share of that nourishment, produced by the fermentation, the dews, and particularly by the Sun, which shines on all alike. I never saw a fiftieth part of so many weeds in my life upon a like space of ground. Their little seed leaves, of various hues, formed a perfect mat on the ground. And now it was, that my wide ridges, which had appeared to my neighbours to be so very singular and so unnecessarv, were absolutely necessary. First we went in with a hoe, and hoed the tops of ridges, about six inches wide. There were all the plants, then, clear and clean at once, with an expense of about half a day's work to an acre. Then we came, in our Butley fashion, with a single plough, took a furrow from the side of one ringe going up the field, a furrow from the other ridge coming down, then another furrow from the same side of the first ridge going up. and another from the same side of the other ridge coming down. In the taking away of the last two furrows, we went within three inches of the turnip plants .- Thus there was a ridge over the original gutter. Then we turned these furrows back again to the turnips. And, having gone, in this manner, over the whole piece, there it was with not a ween alive in it. All killed by the sun, and the field as cle n and as fine as any garden that ever was seen.

Those who know the effect of tillage between growing plants, and especially if the earth he wouled deep; and, indeed, what American does not know what such effect is, seeing that, without it, there world be no Indian Corn; those that reflect on this eff of may guess at the effect on by Ruta Baga plants, which soon gave toe, by their appearance, a dieded proof, that l'un's principles are always true, in whatever soil or climate a splied.

It was now a very beautiful thing to see, a regular, unbroken line of fine, fresh-looking plants upon the by so very whin sical and unnecessary for why is as follows: have the ridges so very wide? This question was not new to me, who had to answer it a thous nd t mes in England. It is because you cannot prome drep and clean in a narro, er space than four fercud, it is the deep and clean ploughing that I regulas the surest means of a large crop, e peciaи **доог,** и indifferent ground. It is a great error to suppose that there is any ground lost by these wide intervals. My crop of thirty three tons, or thirteen hundred and twenty bushets to the acre, taking a whole field together, had the same sort of intervals, never arrived at two-thirds of the weight of that crop. There is no ground lost ; for, any one who has a mine to ... it, may satisfy himsell, that the lateral roots of any

fine large turnip will extend more than si | f of fro the bulb of the plant. The intervals are full of these roots, the breaking of which and the moving of which. as in the case of Indian Corn. gives new food and new roots, and produces wonderful effect on the plants. Wide as my intervals were, the leaves of same of the plants very nearly touched those of the plants on the adjoining rid e, before the end of the out singly, the crop will be diminished one half. To growth; and I have had them fr quently meet in this way in England. They would always do it here, if the ground were rich and the tillage proper. How then, can the intervals be too wide, if the plants ocenny the interval? Ind how can any ground be lost, if every inch be full of roots and shaded by leaves?

After the last-mentioned operation, my plants remained till the weeds had again made their app ar ance : or, rather, fill a new brood had started up: when this was the case, we went with the hoe again and cleaned the tops of the ridges as before. The weeds, under this all-powerful sun, instantly perish. Then we repeated the former operation with the one herse plough. After this nothing was done but to pull up now and then a weed, which had escaped the hoe; for, as to the ploughshare, nothing escapes that

Now, I think that no farmer can discover in this process any thing more deficult, a ore troublesom . nore expensive than in the process absolutely necessary to the obtaining of a crop of Indian Corn. and yet, I will yenture to say, that in any land, c pable of bearing fifty bushels of Corn u on an acre. more than a thousand bushels of Ruta Baga may, in the above described manner, he raised.

In the Broad- est method, the after culture must of coarse, be confined to heeing, or as Tull call it, scritching. In England, the boer goes in when the plants are about four inches bigh, and hoes all the ground, setting out the plants to about rightern inches apart; and, if the ground be at all foul, he is obliged to go in again in about a month afterward, to hoe the ground again. There is all that is done: and a very poor all it is, as the crops, on the very hest ground, compared with the ridged crops, inva-(TO BE CONTINUED.) reably show.

From the last Alassachusetts Repository and Journal.

thre of the most successful experiments in agriculture that we have ever known, is that of the Alors house farm in Salem, which is under the superintendance of Mr. Paul Upton.

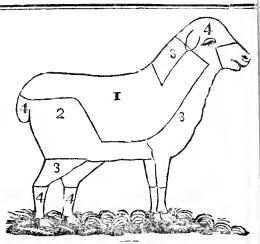
This farm consists of about thirty-five acres, as we are informed, and was, two years since, in state of nature, and very rough land. It has been teps of those wide ridges, which had been thought to brought to, and the produce during the year 1818,

> Pork killed, weight, 7960 lbs. I welve live digs sold for \$42. On hand lifty-seven live pigs. Corn 400 bashels. Potatoe - .250 bushels. Turains 900 bushels.

Three tons of squashes.

Fifty tons pumpkins. All the common summer vegetables for the Alois

We doubt whether any farm in the United States as graduced more in proportion to its size, and t is a proof what well directed industry car dout.



The Spaniards sort their wool into four parcels differ at egre s of fineness, as marked in the above figure These they pack in sacks for arket, marked:

No 1, Rufina No 2, Fina.

No. i, Tercira. No. 4, Cahida.

## 1211201224444444444444 The seventeen Bakewell Sheep

In our last, we engaged to give a more parties lar accoust of the seventeen Bakewell sheep, from which Mr G. Lilliot, a respectable victualler in ou warket, lat by realized a profit of \$200 which h generously bestowed, through the politeness of the Reverend Lishop Kemp, upon two Female Orpha. Charity Schools.

When it is recollected, that the nett profit, in this case, was double the usual prime cost of tha number of common sheep, and that those seventeer ast \$20 each, it may well be a matter of curiosity to know, and r what particular circumstances, o for what extraordinary qualities, they sold at se

ijeh a rate.

Were it possible for us to describe exactly, their extraordinary fatuess, those who may never have seen any sheep of this breed, might naturally be expected to be situte in giving credence to chat they ul find to exceed, so far, any thing usually seer is such cases; we can, hovever, confidently at firm, that the difficulty in examining a piece of this mutton was, not in finding any fat, but in finding any portion of lean meat—It will hardly be believed, that one of them cut more than fur inches of clear fut on the ribs; yet, it is in accordance with the general appearance of all we saw in the market. and the particular fact is vouched in a way that waves us without any doubt of its correctness.

With respect to this breed of sheep, in England, where they are known by the name of the New-Leicester or Dishley breed, we are told the reason for killing them at two years old instead of torce, the age at which these were killed, is, that after too years, they get too fat for genteer tables; and that, in fact, they are considered, from the reat proportion of lat they are disposed to carry, as more fitty adapted to the use of the labouring class of people; and that they are, accordingly, cested for, and confined to, the manufacturing

the saddle of one of these muttons, weighed EIGHTY EIGHT POUNDS, and was sold to a entrooms distinguished for his ther little for Son Jo. Arter this, who shall say that no encouragement

is giver, in t s country, to t breeders of him mutton? It is not always, however, that those who can best afford it, are the most ready to patronise those who lead in the way of honorable industry and public spirit. Nor should the farmer or the butcher deceive himself with the hope that sucprices are to be permanently relied on, even for such sheep. This was an extraordinary occasionsuch a collection of mutton had never been exhibited in our market before; and as the charitable design of the owner had been previously announcedhe found no difficulty in getting, for the greater part of it, 37 cents a pound. But it must be seen that a much less price than that, would have handsomely rewarded the grazier and the butcher.

It was not before the middle of the last century, that agriculturists began to study thoroughly, the breeds of domestic animals; until then, it had been the custom to select for the table, the best of every

lock, leaving the refuse for breeders.

ROBERT BAKEWELL, so celebrated in agriculural annals, led the way in abolishing a practice so repugnant to comon sense. Speaking of Mr. Bake well's system of breeding, an English writer nakes the following observations :-

" Availing himself of the observations which he had nade on different animals, the certain peculiarities of orm were always attended by a disposition to grow fat, and that animals inherit this disposition from their antestors; and if they are kept free from intermextures vith other breeds, in the course of a few generations the peculiar properties will be perpetuated, and form a disinct race; the laws of animal life being, in this respect, regular and permanent. He, therefore, selected from nis own flock, and from the flocks of others, those sheep to breed from, which possessed, in the greatest degree. hat perfection of form he was desirous to attain and perpetuate. By judiciously crossing them, and selecting the most perfect of their progeny, he at length succeeded in forming the breed, which has been distinguished by the name of the New Leicester, or Dishley breed; and naving attained his object, he carefully guarded against my future intermixtures with other breads exceeds all others in its propensity to fatten; and by crossing by rams with this breed, a very considerable portion of the long-wooled sheep in England have been greatly improved in this respect.

"The peculiar characters of these sheep have been well described by Mr. Culley, an emment grazier in Northumberland, who introduced the breed and that part of England. "The Dishley breed are particularly distinguised from other long-wooled breeds, by their fine lively eyes, clean heads, straight, broad, flat backs, round (barrel-like) bodies, very fine small houes, thin pelts, and inclination to fat at an early age. The last property is probably owing to the before specified qualities, which, from observation and experience, there is eason to believe, extends generally through every speties of domestic quadrupeds. The Dishley breed is not only peculiar for its mutton being fat, but also for the lineness of the gram: the flavor is superior to the ution of most other long-wooled breeds. The weight of the carease may be stated in general; ewes, three or four years old, from 18 to 16 ds per quarter; wethers, two years old, from 20 to 50 dbs."

All who saw the sheep which form the subject of this article, will at once recognize in them the Dishley breed, here sp ken of

We shall not here discuss the question, to what extent should the raising of heep be made an obect of attention by the people of the United States ? Col. LAYLOR, of Virginia, for whose opinion, in most things, we ave the high st respect, has come to t e conclusion, that they bregame and consume far more food, in proportion to their size, than any

ther stock; that they are more liable to discase and death, and that they cannot be made a profitable stock, throughout the whole extent of the warm. dry climate of the United States, without banis' ing tillage from vast tracts of country." For the present, we must postpone an examination of these more comorehen-nie views of the subject, observing only in the mean time, that Col. Taylor's demandations of this neachful rare of animals, almost every part of which subserves, in some way, the comforts and conveniences of life, are not concurred in by some of our intelligent agricultural friends. There is one view of the subject, at least, in which all must agree, that as long as we raise ony at all, every farmer of pride, will study to adopt the best breed. and to rear them after the most skilful and advantageous manner. Whatever is done by a provident farmer, his first object will be to have it well done.

Fo return to Mr. BARNEY, that the reader may repreciate the causes of his coninent success in fattening live stock, it is necessary now to mention, that his farm has been made by banking out the river Delaware. The dry warshes thus formed, put forth, early in the year, a spontaneous and inexhaustible supply of country clover and other grass, peculiarly grateful to the taste, and congevial to the growth of cattle and sheep; and, what seems extraordinary, they are said to be entirely exempt from that intolerable annoyance, the musquito, so common on low, marshy grounds, on tideater.

His establishment consists of 420 acres, 150 of them in wood, and 10 in upland pasture; he keeps, commonly, 200 head of cattle and 100 of sheep; the former, average from 700 to 1000 lbs. each. and sell to the butchers, commencing in July and ending in December, for from 60 to 90 dollars per head, reserving a small number for the stall. His sheep he sells, as he informed us, for \$20 a headbreeders, ewes, from 25 to \$50: backs, from 50 to 3100 His usual force for the management of all these, is two men and a hoy. The heaviest of these sheep weighed 144 lbs. of nett meat, which at S7] cents per lh. amounted to \$54

We shall now state the weight and cost of the whole number, and leave the reader to compare the weight with the usual weight of English sheep, given us by Mr. Culley, in the table below :--

17 Bakewell sheep cost the butcher  $\begin{cases} 2 & \$25 \text{ each } \$850 \\ 15 & 20 & \text{do.} \end{cases}$ 

Aggregate weight -1960 Each sheep 1155 Ivera e per quarter Aggregate of rough fat, 365 lbs. or 212 lbs. each.

	NAMES OF BREEDS.	Quality of wo (f.) fine, (c) course, (s) superfine.	many for s	- Wethers	bo hy ! is	
ĺ	1 Te swater	Long wool	9	50.1	3	
١	Lincoln	Long wood	11	35	2	
ĺ	3 New Leicester	Long wool (f)	- 8	22	-2	
1	4 Corswold	Long wool (f)	9	24	2	
١	Ronney Marsh	Long wool (f. )	3	-5.5		
	6 Dartmoor or Bainpt	on Long wool (f)	2	25	- 3	
	7 Extenor	Long worl ( 1	1	1.1	.3	
١	8 He th	- Long word [a]	ن	1	٠	
Į	9 Hereford, Ryeland	Short wool (1.)	3	14	2	

-				
* * * *	10 Morf, Surepshre -   Short wool (f)     11 Derset   Short wool (f)     12 Wilts   Short (mid.)     13 Berks   Long wool     14 South Dawns -   Long wool     15 Norfolk   Long wool     16 Herdwick   Long wool     17 Cheviot   Long wool     18 Dan-faced -   Long wool     19 Shetland   Fine zottony     20 Spanish   Short wool (s.)     21 Ditto cross -   Ditto fine	7 9 2 2 3 1 S 3 3	12 18 20 18 18 18 16 16 7 8 14 16	323223444222
í	FR $TT$ $TREES$			

An esteemed friend and a shrewd observer of things, has handed us the following curious article, pointing out a method of forcing every fruit tree to blossom and to bear fruit, which we have much pleasure in offering to the consideration of our readers.

It comes very opportunity, for the trial of the experiment, and we earnestly invite our agricultural friends to test the truth of the matter, by actual trial. It is easily made, and we shall be happy to know and publish the result.

The useful sciences have made great progress in Germany within the last twenty years, and we are inclined to think, that the American public would be greatly benefited by more frequent translations fro a serious and philosophical German works, than from the numerous trivial publications imported with so much avidity, from other countries. Amongst our friends, there are some, who, we feel well satisfied, would greatly promote the interests of the "AMERICAN FARMER," by communicating translations of essays on different branches of domestic economy; and, as the conductors of a work devoted to that object, we shall feel ourselves under great obligations, to any gentleman who will kindly favor us with such communications .- Ed. Am. Farmer.

"The following easy, simple and infallible me-'hod of forcing every fruit tree to blossom and to hear fruit, has been translated from the German of the Rev. George Charles Lewis Hempel, (Secretary to the Pomological Society of Altennurgh, in Sanony,) by George Henry Nochden. L. D. F. K. S. &c. "In my early years, I saw my father, who was fond of Pomology, and skilled in the science, cutting a ring on several branches of trees, which already were in blossom, for the purpose of producing, by that means, larger fruit than usual. This was not his own invention, but as far as I can recollect, derived from a French journal. Thirty years ago, when I was a boy, I practised this operation, in imitation of him, and thereby obtained larger pears and plums. In repeating this operation of ringing the branches, which I did merely for the purpose of getting larger fruit, I observed that the branches so operated upon, always bore the next year.

By this reiterated appearance, I was led to the idea, that perhaps this mode of ringing the back, might be a means of compelling every unproductive branch to yield fruit. With this view I cut rings upon a considerable number of brancies, which as yet showed no blossom; and found, by repeating the experiment, the truth of my supposition indisputably confirmed by experience. application of this experiment, whereby upon a bough or branch, fruit may artificially be profuced, is very simple and easy. With a sharp knife, which you mean to force to hear, and not far from the place where it is connected with the

where it is joined to the larger hough, the cut is to one tree, for example, where the fruit is very sweet go round the branch, or to encircle it, and to penctrate to the wood. A quarter of an inch from branch of another tree, whose fruit is extremely this cut you make a second cut, like the first acrid. The apples of that particular branch, will branch you have marked a ring upon the hranch, that season; and by this simple process, he asa quarter of an inch broad, hetween the two cuts. serts, that he can easily provide himself, for that The bark between these two cuts you take away clean with a knife, down to the wood, removing even the fine inner bark, which immediately lies upon the wood; so that no connexion whatever remains between the two parts of the bark, but the bare and naked wood appears white and smooth. But this bark-ring, which is to compel the tree to bear, must be made at the right time, that is, when in all nature, the buds are strongly swelling or are breaking out into blossom. In the same year, a callus is formed at the edges of the ring, on both sides, and the connexion of the bark, that had been interrupted, is restored again will out any detriment to the tree or the branch operated upon, in which the artificial wound soon again grows over. By this simple artificial means, of forcing every froit tree, with certainty, to bear, you obtain the following important advantages: 1. You may compel every young tree of which you do not know the sort, to show its fruit, and decide sooner whether, being of a good quality, it may remain in its first state, or requires to be gralted. 2. You may thereby, with certainty, get fruit of every good sort of which you wish to see the produce in the next year. 3. This method may probably serve to increase considerably, the quantity of fruit in the country. The branches so operated upon are bung full of fruit, while the others, that are not ringed, often have nothing, or very little, on them. This effect is easy to be explained from the theory of the motion of the sap. For, when the sap moves slowly in a tree, it produces fruit-buds, which is the case in old trees; when it moves vigorously, the tree forms wood, or runs into shoots, as happens with young trees. Though I arrived at this discovery myself in consequence of trying the same process with a different view, namely, to increase only the size of the fruit, but not to force barren branches, that were only furnished with leaf buds. to bear, this latter application being before quite unknown to me; I will, on that account, by no means give myself out for the first inventor of this operation; but I was ignorant of the effects to be produced by this method, and only discovered them by repeated experiments of my own. which I made for the promotion of Pomology .-Frequent experience of the completest success has confirmed the truth of my observations. Nor do I think that this method is generally known; at least, to all those to whom I showed the experiment, the effect produced appeared new and surprising."

A gentleman, says a late Journal of the Times. who has devoted much of his time to agricultural pursuits, assured us that he had made frequent experiments on his apple orchard, and he has By whom they're felt, or feeling would allay, never known the experiment which we shall now state, to fail in a single instance. His orchard contains a great variety of apple trees bearing very sweet, some very acrid fruit, and others partaking of both these properties. He declares, that taking of both the se properties. He declares, that | Shorn of the little boon, your gratitude conferred. in the vernal season, when his trees were in full | What! Shorn by whom? Alas! I blush to write-

and deposited it on the flowers of a particular round the branch, so that, by both encircling the he assures us, combine these two properties for season, with apples perfectly to his taste, which he considers a much more expeditious, and equal ly as certain a process, as that of grafting. We mention this fact for the information of those of our country friends who may be disposed bereafter to to s voeriment.

#### MISCELLANY.

For the American Farmer.

#### NORTH POINT LINE OF HEROES.

A FRAGMENT.

SEE'ST thou yonder line, in well form'd phalanx, Breasted to the storm of menac'd conflict, Whose burnish'd arms, the sun's meridian blaze Reflects, in ghst'ning terror on the foe?

There to the right, behold two patriot sires, Whose aged locks now bear the hoary marks Of more than sixty years—determin'd here, To stand or fall! Their sacred homes And civic state to guard from hostile ire! Men, whom old Sparta's rev'rence for age, Had deem'd two arm'd messengers from Heav'n.

But hark! the signal sounds the cannon's roar Proclaims th' approach of those fierce legions, Whose arms were lately drench'd in Gallie blood, From where old Calpe frowns o'er the Atlantic wave To the Pyrenean hills, or rapic Rhone. And now, lo !-onward comes the hostile march, Bold, fierce and furious our city to consign To conflagration dire!-Infernal aim! Still reeking from the flaming desolation Of the nation's Capitol-Barbarian deed! At which e'en savage Goths had felt a blush.

Now, fierce is pour'd the deadly leaden shower, While still, in stern defiance stands unmov'd, Nor idly stands—our band of youthful heroes— For, on the foe, with well directed aim, They pour an equal flood of missile death-While their proud chief, in daring valour, bold, And flush'd with triumph from Iberia's plains, Now bites the dust! when all his host appall'd With solemn pause-shrink from the contest dire. Meanwhile our little band of brave compatriots.

In strict obedience to rever'd command-Prepar'd alike, or for retreat, or halt-undaunted, Their post maintain - tho', not without some loss, To wring a parent's or a consort's heart!

Our gallant NESTORS, too, who, side by side, Had borne the brunt of all the fiercest onset, Were now, alas! to part their alli'd arms. The one, a random bullet had brought low; His aged locks laid prostrate on the dust-While in the other's arms-he's borne-as Niscs His EURYALUS of old, did bear-and thus, His bleeding friend, he plac'd behind an oak, Poor, scanty shelter from the battle's rage. Yet, he to life, and all for whom he hy'd, And fought, and bled, has since been well restor'd. Not so, his old and tri'd compeer in arms; Who, though without a wound, he glory gain'd And the free soldier's cho.cest, only meed, conscious sense of duty well discharg'd. Yet still a wayward world, and all its ills-Ills, not so few in number, as are those Still mark his lengthen'd passage to the grave-Behold, then, BALTIMORE! your hoary veteran,

Who fill'd his portion of the North Point line, Of that too small, but yet immortal phalanx, That plead your cause abreast of British bayonets,

stem, or, if it he a small branch or shoots, near to olossoms, he has frequently taken the fruit from Confer to or what? To cheer an old man's sorrows? To rear or cheer the Orphans round his board? No! No boon it was-but a mere pittance-By service, toil, and labour, dearly bought Beneath a scorching sun-through streets and lanes, And nuisances - at risk of health and life-With daily zeal and faithfulness discharg'd. Why, then, again I say,-yea, loudly say-Why, then, bereave the hoary headed vet'ran, HE North Point mem'ry, of such an office? And, thus, wrest from the aged hero's hand The only support of declining years? Forbid it shame! Forbid it all that virtue Should suggest, or gratitude inspire-That any deed, so foul, should stigmatize Our City-should e'er be charg'd to those Who merit, worth, or valor, highly prize-Whose boast is to remunerate the brave-To rear the monumental pile-to teach The breathing canvass to portray their forms-And lips of infancy to lisp their names, Who, for their country, bravely bled, or died.

\* Office of City Commissioner.

For the IMERICAN FARMER.

#### A BRIFF OMMENT

On an old proverb and a recent event, for the instruction and benefit of the people of America.

" Exemplo plus quam ratione vivimus" Whether to nations or individuals, examples are of the greatest importance, illustrating the good old proverh, "that example is better than precept"- Feach a young man the best precepts written either by Solomon, or Socrates, or Franklin, yet, until he comes into society, he will only be a novice in the ways of the world. After all the volumes that have been published, and they are innumerable, the best, as being the most instructive is THE BOOK OF NATURE-In this re--pect, the people of America are most happily circumstanced; they have not only all the wise sayings and doings of the old world, but they have also before them, the example and the experience of both hemispheres-If they sin, they will sin with open eyes. They are young in practise, but they, amongst all the nations that have heretofore either risen by virtue, or fallen by vice, have the hest opportunities of profiting both hy precept and example. Wo be to them, if they neglect such golden opportunities.

The last London papers are filled with panegyrics and anti-panegyrics, anecdotes and secret histories of a royal personage who lately died in England—This lady was brought from a petty German principality (not lorger, and not half so opulent as an English county) in order to support the church and state system, by producing heirs to the imperial throne of Great Britain and Ireland. This part of her duty she fulfilled with a singular fecundity, having produced, "according to law," twelve princes and princesses (besides three others that died) all of whom are liberally provided for at the expense of John Bull, who is said to be wonderfully fond of "royal pageantry." If moaarchy be the best of all possible governments, which the courtiers praise in parliament, and the clergy eulogize in the pulpit, all must agree in acknowledging, that it is a very costly article, and that simple John pays dearly for his whistle.

There are the establishment of the king, that of the queen, and those of the royal progeny, which every year take millions of money from the hard earnings of a grievously taxed people, to support the luxurious magnificence of thuse branches of royalty, with all their courters and officers, servants and sycophants, to the amount of many thousands—The eldest branch of this royal family (whose conduct to his lawful wile has made him a conspicuous character in the fashionable world) in the expenses of his sumptuous palaces, his voluptuous banquets, his costly dishes and equipages, with other et ceteras not fit to be mentioned, has expended more money than would make a complete line of canals from Boston to Savannah. With this glaring example be fore our eyes, would it not be lamentable if any party in This country, should betray an anxious hankering after this church and state policy!

It is indeed surprising, that a nation so justly famed for wisdom and intellect—a nation, that was once the bulwark of liberty in Europe, and has produced so many illustrious characters, should patiently submit to such gross impositions. But England is now borne down by a corrupt parliament, two thirds of whom feel an interest in this ruinous system of policy.

The court papers are industrious in their praises of the character of the late queen, and even venture to extol her generos ty-This is a virtue upon which they should have been as silent athe grave; for it is well known, that the old lady, in conjunction with her favorite German companion, Madam Sahwellenburg, took every means to acquire money, even to the sale of the cast-off court dress. It was generally believed, that, at her death, she would not have amassed less than three millions sterling; but only about three thousand pounds could be ascertained-she had carefully conveyed her vast fortune to her connexious in Germany. Thus it is, that ever since the accession of the Hanoverian dynasty, the petty German principalities have been enriched at the expense of England.

Amongst the number of Anecdotes lately published. I shall only select two, as they relate to the virtue, called the generosity of the deceased lady

lady.

A number of well meaning ladies and gentlemen having set on foot a scheme for the support of reduced females who had seen better 'ays, they humbly solicited her majesty to patronize it, and she most graciously condescended to comply with their request; hut when the managers of the institution went about to obtain subscriptions to defray the expenses of it, the queen said. "that she left the management of her pecuniary concerns entirely to the care of her faithful subjects!"

At another time, the queen took it into her roy al head to shew a mark of royal benevolence to a lady whom she had formerly known at her father' court; accordingly, she generously sent her six pounds of Bohea tea, and a half of a Cheshire cheese!

Her harsh conduct to the wife of the prince Wales, and the mother of that amiable prince who lately died in child-hed, can never he forgoten, whilst there is a spark of true generosity existing in the world.

O. B.

#### TO CORRESPONDENTS.

We have found it impossible to get in this paper, the communication on Trench Ploughing; but we shall endeavour to make room to that, and the introductory essay on Domestic Manufactures, in our next.

From the Frankt n (Phil'a) Gazette.

#### STATEMENT

Of the Cotton Hard imported into Liverpool. London, and Glasgow, from the 1st of January, to the 5th December, 1818

211,323

208.449

U. STATES OF AMERICA. viz.

South Carolina, 62.075 bags Georgia, 71.931 do. New-Orleans, 50.348 bales Other parts, 26,974 bags, &c.

SOUTH AMERICA, viz.

Demerara, Berbice, and Surinam, 24,892 bigs, &c.
Pernambuco, 45,584 do
Rio, 11,121 lo
Bahia, 58,854 do
'aranham, 37,687 do

Other parts, and Portugal 21,939 do

WEST INDIA ISLANDS, 15,805
EAST INDIES, viz.
Bengal, 159,930 bales

Bengal, 159.930 hale Bowbay, 46.114 lo Isle of France, 1,162 lo Other parts, 1,229 do

European Ports and Ireland, bags 7,955
The following statement exhibits the increase of importation from the several parts of the world during the last two years, into the port of Liverpool:

American Brazil West Indies, and Demerara, &c. | Bags, &c. | Bags, &c. | Bags, &c.

1817 | 164,096 | 90,533 | 21,701 1818 | 179,094 | 132,718 | 21,802 East Indies, European and other Ports.

| Bags. | 3063 | 1818 | 63,707 | 3063

The camparative qualities of these cottons, may be, in some degree, estimated by the following list of prices, at Liverpool, Dec. 1818.

Sea Island, fine, fr. 3s. 4d. to 3s. 9d. per lb. good 3 1 3 3 iniddling 2 91 2 11 ordi. & stained 1  $8\frac{1}{2}$  $2 \quad 0$ Upland Bowed 1 1  $8\overline{1}$ New-Orleans 1 6 1 1 1 9<u>ĭ</u> Bahia 81 Maranham 1 9 ı 93 Pe nambuco 1 2 0 1.1 2 Cavenne 1 H 0 Demerara & Berbice 1 8 2 0 Surinam 10 2 1 0 Barbadoes 1 1 8 Common W. India 1 1 7 Bourbon 2 8 0 11 Bengal Surat 1 21

The Duties on all there are

From any place, in a British ship, 0%. 8s. 7d. per 100 lbs.

From the U. S. in an Amer. ship, 8 7

From Portuguese colonies in Portuguese ships 8 7

From any other place, in fureign ships, 1 5 6

For Planting table is extracted from a near Petrly published in Paris, written by the Coan' De la Borde:

Extent of territory in France, 108.000,000 acres. Population.

In agriculture, - - 17,500,000 persons.

Manufactures, - - 6,200,000

Indigent, - - 800,000

Various, - - 4,000,000

Total, 25.500,000

Annual agricultural produce 1140,000,000
Manufa pares \$5,000,000
Permanent public revenues \$0,000,000

The following table, in respect of England, is copied from the same author:

Extent of territory, 55,000,000 acres. Population.

 In agriculture
 6.199.142 persons,

 In diamfactures
 7,071,050

 Indigent
 1,748,400

 Various
 2.347,300

Total, 17,090,800

 Annual agricultural product
 1≥25.000.000

 Manufactures
 115.000,000

 Permanent public revenue
 62,000,000

#### PUBLIC IMPROVEMENTS.

Jean Brune, the celebrated Venetian architect, who proposes to remove churches, houses, and every description of building, from one place to another, without separating the materials, is daily expected in London, where he is to exercise his wonderful skill in the improvement of some of our streets and public places. His first work will be to remove the monument from Fish-street Hill to St. George's Fields. He will then take London Bridge, and place it where Battersea Bridge now stands. Penible bar, by his exertions, will be transported to Kensington cross, where it is to stand as a toll-house.— The shop part of Exeter change to be removed to the Haymarket; the upper parts, beasts and all, are to be conveyed to Smithfield. This certainly will be found an excell int and much wanted improvement to the Strand. Some other plans are mentioned, but the parties have not yet agreed to the terms proposed by the ingenious Italian .- Lon. pap.

#### NEW-JERSET BANKS.

The following Statement, is copied from the Treasurer's amount of Banking Capital in that state, and of the tax paid thereon to Government:

	Capitals.	Am. of	a.r.
Newark Bank	§300,000	\$1,500	00
Camden do	500,000	3,000	10
Treuton do	214,700	1,075	70
N. Bronswick do	163,450	817	25
Cumberland do	50,000	2.0	00
Newark State do	200,000	1,000	00
Facmer's State do	100.000	500	-00
Frenton State do	92.400	462	00
N Brunswick do do	142.000	700	00
E. Town State do	99,975	499	88
Morris State do	100,000	500	00
Patterson State do	120.000	COO	00
Morris state do Patterson State do	. ,	•	-

Totals, \$2,182,565 \$10,002

#### BALFIMORE:

FRIDAI. A + RIL 1, 1819.

Late from South America.

The first movements of every people, in the act of throwing off an oppressive system of government, are always interesting to every friend of humanity—even than It these movements be injudiciously directed. The present, seems to be a critical period in the fate of Fenezuela, as indicated by the letter of our friend, than whom, a more ardent votary of human liberty, never put pen to paper.

Angustuna, February 16, 1819.

Yesterday was the commencement of an auspicious era for Venezula, if the congress and the people have wisdom and integrity enough to improve the occasion. I shall briefly relate the civil concurrences, and leave you to judge for yourself.

Having received a courteous invitation from general Bolivar to attend at the solemn ceremony of installing the congress, in the palace of gov roment, I was at the rendezvous at the appointed hour, and accompanied the general and other officers, to the capitol, where the members were drawn up in the passage in open rank4, facing inwards, to receive him (the supreme chief. They passed into the hall and took their seats—salutes being fired then, as well as at sun-rise, or rather, at the hour of sun-rise, for it was rany and cloudy, and sol invisible.

After a short pause, the supreme chief addressed the assembly, in an elaborate discourse on government, and on the peculiar condition of Ven zula--taking a survey of free states, ancient and modern. His connciation was clear and distinct; his action correct, but his voice some what feeble. The political institutions of the United States, he regarded as singularly fortunate in escaping so far the common run of free governments, and promising to be lasting, [which God grant !] This happy exemption was owing to the habits in which the North American people were nutured and educated. They had been born in a free state. Little of this, he feared was applicable to Venezula, where different casts formed a compound, uniting the mingled blood of America, Spain, and Africa; and he submitted his plan of a proper consitution of government.\* England seemed to afford finished models in the three forms or compartments of government; in the executive or monarch cal part, as in the aristocracy and democracy. He strongly declaimed against a f detal system for Venezula, while complementing the United States extravagantly. In short, the drift of his argument was, to recommend a permanent senute, for one thing; insisting on the policy and justice of reward no the be efactors of their country (or the military officers) by seats in it-for them, their heirs!

The abominable chaos, under the name of laws, which are so footbal of mischness, impunity, vexation, and crime, he described very properly—

He also urged the nace sity of freedom of religion, and the press, and of encouraging education.

I do not pretend to ceat exact asso partendity; but so fas as I give a sket., I am sofficently accurate. I think. As soon as possible I shall obtain a copy of this document?

As he concluded, with viva el congresso! another salute was fired, drums beat, and tells were tolled.

Dr. F. A Zea, was then called to the chair: ten B. howe er, officiated to administer the oath of office to the members. Mr. Zea addressed the assembly, from the chair, in a pertinent and elegant speech, extempore. He adverted to the history of other states, in the formation of their governments, comparing, or contrasting their situation with that of Venezuela. He pissed a flattering panegyric on the magnanimity and disinterestedness of gen. Bolivar, justivextolling his more recent act, as an example to every patriot, &c. &c. or soldier.

tion. Bolivar rose after the president of congress (ad interion) had finished his remarks, to reply, on behalf of the officers more particularly, to the observations made. He renounced for himself, then and forever, any and every civil trust. When peace should be established, he would become a private citizen, and never be any thing more.

When he retired, viva el general Bolivar! re

sounded through the assembly.

The concluding declaration gave surprise to every one whom I heard make mention of the saliject But, whatever his past conduct may have been, and there are various opinions concerning it, his last political act is unequivocal. He must be disinterested, since he precludes himself from filling any civil station. This, I say, caused much wonder and conversation. Let the historian of this revolution weigh his merits and failings impartially, and award him that quantum of censure or appliase which is his due. For myself, though previous information had strongly biased me against general Bolivar, as a man of inordinate embition and sinister management, 11 had rather praise than blame any man, if truth permit. I am, at any rate, so pleased with events, that I dismiss censorious inquiries into causes.

All the proceedings of congress were marked by decorum. To-day, during a few minutes that I attended their debates, I perceived their extreme want of rules for conducting the business of the house. If they adopted a proposition, or resolution, investing general Bolivar with executive powers of president profem, and appointing him generalissis of the army. A committee is named to draw up cales of debate, &c. another to consider and report on Bolivar's project of a consitution for Venezula.

Accounts from the armies leave room for double and apprehension, as fam sorry to state. The enemy, whose policy is to defeat Paez before he is reinforced, have crossed the Apura and Aranca. They have received reinforcements to a considerable extent, if we may rely on their statements. The boldness of Arallo's movements, is the strongest exidence of it. Should Paez be defeated (which Jove forbid!) the country has yet to pass through a second ordeal—Things are at a crisis. However, near 500 men have arrived from England, and as many more are expected daily, besides another expedition

† the Editor has received one, but it is too long for

of 1/10 m. 2000 men and the symmetater; the year content to soon—but no to parary reverse can prevent the independence of the country, sooner or later. I therefore hope the government of the United States will manifest their good disposition without delay. We can show our freend-hip without going to war with spain, and we ought to befriend the congress and patriots of Venezuela.

February 19.

News from the army, of the 7th inst. state that general Page had surprised and defeated a corps of '90 of the enemy's cavalry, killing 400 of them. One army or the oth r, it would seem, must be destroyed. The enemy cannot support himself in his present position, near the Aranca (in crossing which he lost 500 men); Paez's cavalry hovering round him, have driven of the cattle in front and set fire to the grassy plams in his rear. His (P's) infantry, and a corps of artillery, are posted on the inland before Urbanna, form of by two branches of the Aranca, disemboguing taeir waters into the Orinoco, with the latter, of course. It is the enmy's best play to attack Parz before he is reinforced; and it is the order of Bolivar to P not to come to a general action until he be reinforced, but to take advantage of circumstances.

February, 21.

Accounts are received from Trinidad, of four transport ships, belonging to col. English's expedition, having touched there and sailed for Margaritta, with 7 or 800 men. Should these reinforcements be wanted here, this movement is infortunath, as these ships never can beat up to windward again. Therfore, I suppose, they will be ordered to occupy Barcelona, or some other point on the coast, and operate againt the most vulnerable parts of the enemy's territory. If Paez but avoids a general action for a while, the Spanish army must be lestroved.

Port of Spair (Trimidal) March 12, 1819.

I arrived here this forenoon, from Angostura, where prospects are encouraging. Certainly the patriots must triumpn this campaign. English reinforcements, (chiefly Irish however) will turn

the scale unalterably.

Roscio, Pallacios, Cadiz, &c. are struggling for the establishment of a free constitution. I know not what success they may have. If they make a good beginning, they do enough for the present. As the people advance in information, they will improve their fabric, poco a poco, and that is all we ought in reason to expect.

Thope, under all circumstances, our government will act liberally; depend upon it our policy con-

sists in so acting.

Ere this reaches you, though I send it via St. Thomas, for speed, you will have heard of Parz's success over Morillo. A descent from Margarit a, no the coast, and a junction of tones under good officers, (amongst them is col. Nordham, newly reappointed.) will complete the reign of the Godos in Venenz, by May day, at farthest—I hope.

Saint Taomas, March 20, 1819.

By a letter I received this morning, died argaritta, 10th, I am advised, that the progress of the royal army under Morito, had been checked by gen. Place, having already sustained a loss of 600 men. They were retiring from the Apura, and were closey pursued, so that here is every reason to expect, but Pacz, and give a good account of them. The leet had sailed from Angostura a few days previous

<sup>\*</sup>A mancurre which detracts much from the merit of subsequent renunciations. All this he ought to have left to the constitution congress. This proposition, however, offered respectfully (in term) as to the right of every citizer.

<sup>\*</sup> Some people are not disposed to render him my homage, or give him any credit for the measure; average, that necessity aone, compelled him to do it. I conor argue to point: I camo swear to mo ives, for they are hidden; but acts to at please its, we are not menned to ascribe no inworthy intents.

Priy but they had Mr. Jefferson's manual, in Spanish.

to the date of my letter, in pursuit of a Stanish squadron, which has been in that neighbourhood. Admiral Brion had resumed the command, a cir-lect required it, but we cannot permit another cumstance of much importance to the success of their week to poss, without recommending the Farmoperations, as Jolie, during the time be commanded, er to pass the harrow over the fields of small grain. had conducted himself in such a manner as not only We are confident that it must have a fine effect, in to render himself, but it is to be feared, the cause giving it an early start, and enabling it to out grow in which he was engaged, unpopular.

The Buenos Ayrean brig of war Irresistable, cap tain Damels, had arrived at Margaritta, with several of his prizes. amongst them his Catholic Majesty's late brig Nariade, of 18 guns, and 140 men, which he had captured after an action of 14 minutes.

#### Latest FRO $\ell$ r.NGLJAD.

Our latest London dates are to the 24th Feb. received by the arrival of the Ann Maria, at New  $\mathbf{Y}_{\mathrm{eff}}$  k. The substance of the intelligence received by her. (though not very interesting) we have thrown into a condensed form for our readers. A report, for stock-jobbing purposes, was got up in London, on the 22d Feb. of the death of the Frence king.—English ports were shut against the importation of foreign wheat, and open for other descriptions of grain. Grain of all kinds admitted free from British America.—American Bank Shares, on 23d Feb. 120 to 21; new six per cent. 99 a 100; three per cent. 64 1-2 a 65, with dividend from January. -The late ex-king of Spain died a short time since at Names. The 100 millions indemnities due to the allies from France, had been definitely arrange ed: the first instalment of one third is to be paid 1st June, 1800.—M. Beauregoard, his former physician is to go out to Bonaparte in that capacity. sanctioned by the allies .- An association has been formed at Treves, for the establishment of a settlement in the United States. Great numbers are ready to embark .- France is engaged in establishing a colony in Senegal, for the cultivation of cotton, indico, coffee and sugar. A new Swedish tariff of duties has been drawn up, and no goods are to be prohibited exportation, but some few that might cause a scarcity of raw materials to the country. For age and swedish vessels are put upon similar footin , a it regards exports, except that the former are to pay 10 and the latter 5 per cent. of the value; but al go as the duties of which are only 12 pence per the \$ 00, may be shipped in foreign vessels, without augmentation of duty. Mr. Adams' I tier to t Spanish minister, was republished in London, on the 27th Jan - Carrile, who kept a book-shop in Fleet stiret, London, has been sent to Newgate, for selling l'aine's Age of Reason; and was afterward bailed -John Moore, a grocer, has been fined (146) for selling leaves fabricated in imitation of tea. - 1 h Ar, quis de la Favette, is a ember of the French Channer of Deputies. At the litting of the 1411 he delivered a speech relative to the national guars of uxerie .- 1. ord (astereagh has sunnitted to the house of Commons, a series of highly interesting and important docu cuts, connected with the efforts or regulated to procure the abolition of the slave tra t .- A general depression in prices of American produce in Landon and Liverpool.-The Spains Royal order, subjecting to the pain of death ail f reigners, tou, a we to arms in their rands, aiding t ins agents, it is said, bad cailed both a represent tion from the European ambassachus at that cour expressing the north they were inspired with at it-Sanguibary character.

Harrowing small Grain in the Spring.

We have not room now, for an essay, if the submost of its enemies - The reason is plain and obvious.-It acts like a fresh ploughing of corn or tobacco, just before a good rain-the surface of the ground is softened about the stalk, gives it room to expand, and numerous bugs and insects, are routed. covered over, and destroyed.

At all events, it is easy, to make the trial.— Let a few breadths be harrowed, the same way the grain was ploughed in-numerous plants will be torn up, and the operation will, apparently, menace universal destruction; but it will be found, that what remains, will spread and thrive much better, and more than make up for the little destroyed.

Perhaps, for this operation, the common old wood en tooth harrow, with bluut teeth, would answer as well, if not better, than any other—and it is well if it can be made to answer any purpose well. And at all events the harrowing is strenuously recommended by some of the best Pennsy vania farmers -therefore we repeat, make the trial on a small scale, and then you will know, another year.

#### RAVAGES OF THE PLAGUE.

A letter from our consul at Tunis, we suspect. received in Boston, gives a most lamentable picture of the condition of that people, from the prevalence of the plague. It is thought favorable to the public realth, when the number of deaths does not exceed 100 a day—and it frequently amounts to from 3 to 350! It commenced in October last, and it is estimated, that the Bey looses about 2000 subjects daily. The population of Yonis, alone, has suffered al eady a diminution of 30,000, by death and emigration: probably more than half by the pestilence. " You may form, says the writer, some idea of the rayages of the malady, and of the exactness with which justice is here administered, in some respects, from the remarkable fact, that a poir cobler was the other day summouned from his stall, to take possession, as the inheritor, of 12 different estates at once! In would seem that they invoke their own curse. The ranguage of the Koran is, " Send, O Allah, send death to the infidels."

Prices of Country Produce, according to actual Sales, within the last week.

We wish our subscribers to understand, that this is a duty to them, in the performance of which. we take special care. When we state prices of ar ticles in foreign markets, we get them from an actual i spection of fetters received by gentlemen on whome every reliance may be placed. The prices in our o u market, are gathered from buyers and sellers We take the pains to know, the quality of the articl, the place where, and the person by whom it was grown; the saller and buyer, and whether on credit or for cash. From toese data we make up our stat ont, and the farmer may receive it with to price midence.

I bucco - The tast week has been one of great contrade to this arci ie. It has not vibrated lik , newword a cook, going sometimes up and men conn-its motion, we are sorry to say, has been

antformly, dow war -and from the reat scarcety of money, we fear, it will be still lower. There has been no sales within the last week, of lower Patuxent, but it is offered at 89 and \$11. Rappahannock sold vesterday, crop tobacco, for \$9-50. Fine vellow tobacco, in waggons from the upper country, -old three days since, for \$16-25 and 18-25, and bas since fallen from 82 83 per cwt.

Corn. per Chestertown packet, sold yesterday for Yellow White Red Wheat

On Wednesday, a parcel of col. Lloyd's white wheat, cleaned by machinery, sold for 1.60Yesterday, white wheat, grown by Cnoke

l'ilghman, Esq sold for (the present price) 1 50 80 a 85 Oats 45 a 50 Cuen 55 a 37

Agricultural Repository,

For Seed, wooks, Implements of Husbandry, etc.

P. CASEY, No. 2. Hanover Street, adjoin-P. UASEY, No. 2. manager sing Mr. Gabser's flotel, has received from differn. parts of Europe, (where they could be best procured) THE FOLLOWING

#### Seeds and Flower Roots, viz.

40 varieties of Cabbage Seeds, including those which Cobbett mentions in his last 6 Month's Residence. o varieties of Brocoli and Cauliflower Seeds, adapted to he chiate of this country.

6 do. of Beets, two sorts of which are a very fine Spiach, and a substitute for Asparagus.

8 do. of Lettuce, two sorts of which sell in Europe for 12 shillings sterling per ounce

6 do. of Radishes (very beautiful) do.

6 do. of Turmps -Other varieties too numerous to

A so a numerous variety of FLOWER SEEDs, made up in small packages, amongst the latter is Carnation. Pheasant eyed Pink; and Auricula at 2 dollars per oz. The above are all genuine and adapted for all parts of the union.

To close the sules of his Flower Roots, he will sell the fol-

lowing Roots at reduced prices, viz.

Bouble Anemonies, of sorts Ranunculuses scarlet and Persian, do.

Do. Tulips in xt

Carnation Tulips Do.

Do. Veilow Rose do.

Best Dutch single Tulips

Parroquet | do.

Polyanchus, Narcissus and Tuberoses.

" What we admire, we praise; and when we praise,

" Advance it into notice, that its worth

" Acknowledged, our is may admire a too"

#### JUST PUBLISHED,

## A Farmer & Gardener's Hive,

Showing the spense and profit attending the cultivation of 3.0 acres of land, and so in proportion for any stace quantity with a table directing the proper quantit of different sor's of seed or grain necessary to be sown on an ere of land, either for drill or broad cast husbandry. To such is added, a Farmer and Gordener's Callendar, showa what is necessary to be done on the farm and in the gorden for every month in the year; with many valuable cip's a cessary for the farmer in cultiv tang his land and mot come has fruit trees from all sorts of diseases, insects, ic. Al., to preserve sheep from the rot, to mak, panyry ay e.g., n.ke good chees, ; to ensure an abundar crop of grupes, upples, pears, peaches, groseberry and curants; and to protect vegetables of every description from custorpolars and other ms cts-to be had at a seed store, with his signature annexed -Copy right secured according to law

FF A att ULTURAL SEEDS, such a Clover, Tam-Pay, Flax, Orchar, etc. bought or exchanged for other seeds. April 2

#### AMUSEMENT.

LACONIC ERISTLES - When Lord Easton ran away with one of the maids of honor, he promised the Duke of Horset, who helped her into the post chaise, to write him from the first stage. The returning stage accordingly brought the Duke the following letter:

" I am the happiest dog alive.

" Yours, Euston."

At Gretna-Green, Euston received this answer from the Duke:

"Every dog has his day.

" Yours, Dorset"

A traveller was asked if he knew what was the best thing in the world? 'Liberty,' answered he. The most thing in the world! Liberty, answered he. The most pleasant! Gain! The least known! Good fortune! The worst! Death! Who is the most happy man in the world! The learned man who has riches and knows the use of them! The most unfortunate! The poor old man! The most importunate! The hard hearted creditor! The most dangerous! The ignorant physician! The most worthy of compassion? . The liar, who is not be reved when he speaks the truth'

Cold People - An Italian on his return from Poland, said that the people of that country were as white as their Shows; but that they were colder than they were white; and that frequently, from their conversation, he caught a co. L. The foregoing reminds us of the remark of a friend, who, on being asked, if he had ever heard a certain time, replied, "yes, so often, you may fiddle it from my fuce.

### DOMESTIC GOODS. THE ATHENIAN SOCIETY,

NO. 80, BALTIMORE-STREET.

IN addition to their extensive stock of COTTON and WOOLEN GOODS have just received fresh consign ments of the best American CLOTHS, CASSIMERES and Satmetts in great variety of colors and nuxtures.

They have a constant supply of Cotton Yarn and Threads, Oil and Floor Cloths Ingram, and Stair, and Entry Carpeting, Hats, Combs, Umbrellas, Parasols, Brushes, and numerous useful articles of home manufactured by wholesale and retail on my ting terms

## MERINO WOOL,

purchased for cash and taken in exchange for gonds at eash prices.

#### Orfeila on Poisons.

Just published, at 140. Baltimore-street.

POR persons who have taken poison, and those in a state of apparent death torrail in a state of apparent death, together with the means of detecting Poison, and adulterations in wine. Also, of distinguishing real from apparent death, translated by R. H. Black, Surgeon; with an Appendix on suspended annuation, and the means of prevention .- First American from the late London edition.

This work will be found useful to Practitioners, Students and Families generally-12mo. in boards, price 81 25.

N. G. MAXWELL.

march 10

April 8

#### FLORENCE MACARTHY. Just published and for sale at No. 140, BALTIMORE-STREET.

FLORENCE MACARTHY,

AN IRISH PALE, BY LADY MORGAN-author of France, O'Donnel, &c. "11 was from his death words only, that I gathered his connections with the illustrious house of Macarthy in this country. That he was high spirited and brave, I collected from my own observation. That he was unformulate and in xis, it was natural to suppose, for he was an Ir shman an a Catholic." Two vois.—price \$2.
April 8 d4t N. G. MAXWELL.

## PRIORS CURRENT

#### AT BALTIMORE:

L.H. Porised and Corrected every Thursday

Carefully Revised and Correcte			
ARTICLES.	.   —		PRICES
BEEF, Northern mess	pbl.	17	
No 1	1	15 13 50	
No 2	lb.	16	
Bacon,	1 1		37 1-2
Coffee, first quality,	1	83	
second do	1	27	28
Cotton,		27	
Twist, No. 5,	1 1	53 56	60
No. 6 a 10, -		63	90
No. 11 a 20, No. 20 a 30,		90	1 30
Chocolate, No. 1,	1 1	33	
No. 2,	1 1	28	
No. 3,		25	
Candles, mould,	pox	20	22
dipt,	1 1	18	19
spermaceti, -	lb.	9	searce 10
Cheese, American,	10.	60	65
Fish, cod, dry	qtl.	3 50	
herrings, Susquehannah,	bЫ.		retail
mackarel, No. 1 a 3 -	1 1	9	12
shad, trimmed, -	1	7 75	7 87
Flour, superfine,	1111	6 5 50	6 50 6
fine,	bbl.	4 50	5
middlings,	1 1	4 a	4 25
rye, Flaxsced, rough,	eask	none.	
cleaned,	bush	do	
Flax,	Ib.	do	
Hides, dryed,		12	15
Hogs lard.		12 25	13 30
Leather, soal,	gal.	62 1-2	75
Molasses, flavana, New Orleans, -	gar.	75	
sugar house,		1	
Oil, spermaceti,	gal.	1 50	
PORK, mess or 1st quality, -	bbl.	18 a	20
prime 2d do		16 a	17
cargo 3d do.	l.an	14 a 5	15
Plaster,	ton	1 75	
Rice,	Ъ.	6	
Spirits, Brandy, French, 4th pro-	of gal.	2	3
peach, 4th pro-	110	1 25	1 50
apple, 1st pro		75	
Gin, Holland, 1st pro		1 50	
do. 4th pro- do. N. England	01	50	60
Rum, Janiaica		1 50	
American, 1st pro	of	75	
Whiskey, 1st pro		50	
Soap, American, white,	lb.	18	
do, brown,		9	1
Sugars, Havana, white,	1	19 15 50	
brown, loaf,	- 1	25	
lump,	ь	20	
Salt, St. Ubes,	bu .	70	1
faverpool, ground,	1	75	
Shot, all sizes, -	lb.	12	1
TOBACCO, Virginia fal, do. middlings,	ewt.	6 50	J
do. middlings, Rappahannock,	l l	5	5 50
Kentucky, -		6 50	1
small twist, manufactured,	lb.	25	
pound do ·	-	50	
TEAS, Bohea,	lp.	63	
Southong,	lb.	78	1
Hyson Skin Young Hyson,	. 1	1 25	I .
Imperial,	1	1 75	
WOOL, Merino, clean,		80	,
unwashed, -		40	
crossed, clean,		6.5	
unwashed, -	- 1	35	
common country, elean, unwash	ed	25	1
skinner's,	-	33	
	4		

#### RATES OF EXCHANGE.

OF BANK BILLS.

Corrected monthly for the American Farmer.

United States' Bank, and Branches. Boston Banks	par par
NEW-YORK.	-
City Banks	par
NEW-JERSEY.	DOR
	par
	21-2 dis.
Mount Holly, Bridgetown, &c.	2 1-2do
PENNSYLVANIA	nar
and a street day be also	par
Stephen Girard's Bank,	par
Chester, Easton, Harrisburg, Montgom-	2 I-2 dis.
Carlisle Bank,Chambersburg,Gettysburg, (	3 a 4 do
York, Laneaster, and Columbia Bridge, )	
Carlisle, (Agricultural)	nominal.
Bank of Pittsburg,	6a7 1-2 dis
Westmoreland, Bedford, Brownsville, Meadville, Centre, Huntingdon, Milton	nominal.
DELAWARE.	1 . 1 1 2
Bank of Delaware,	1 a 1 1-2
Wilmington and Brandywine,	1 a I 1-2
State Bank at Dover, and Branches,	1 a 1 1-2
Laurel,	50 dull
Smyrna and Milford,	10
DISTRICT OF COLUMEIA.	
Georgetown Banks.	I dis.
Alexandria Banks, (excepting the Me-	1° do
chanics and the Franklin.	. uo.
Mechanics of Alexandria,	20
Franklin of Alexandria,	60
VIRGINIA.	
Bank of Virginia, Farmers' Bank, and	
Bronches	1 1-2 a 2
Branches, Unchartered banks, various	7 1-2 a 25
	no sale
Saline and Parkersburg	110 2010
NORTH CAROLINA.	10101
State Bank and branches	12 1-2 dis.
Newbern and Cape Fear	12 1-2
SOUTH CAROLINA AND GEORGIA	
Bank Bills	5 a 6 de.
KENTUCKY.	
Old Banks,	15 dis.
onto.	
Chissicothe, Marietta, Muskingum, Ur-	
Mount Pleasant Montrelier New 1 ic. 6	15 a 25*
hanna, Steubenville, &c.  Mount Pleasant, Montpelier, New Lisbon, St. Clairsville, &c.	
3-	
District of Maryland, to wit.	
BE IT REMEMBERED, that on the nineteenth d	lay of March
in the tente the religion of the ir	rdene Briene

streets in the forty third year of the independence Stall of the United States of America, Joseph P. Casey of the said district, hath deposited in this office the title of a book, the right whereof he claims as author, in the words following, to wit.

"The Farmers and Gardeners' Hive, shewing thees pense and profit attending the cultivation of three hundred acres of land, and so in proportion for any other quantity; and the work necessary to be done on a Farm and in a Garden, for every month in the year. Alsos Treatise on the Cultivation of the Peach. To which's added a number of Recipes, to protect all sorts of Fruit trees, Vegetables &c from all sorts of diseases insects, electricity; and to insure an abundant crop of fruit For all states in the Union.

In conformity to an act of the Congress of the United States, entaded "an act for the encouragement of learning, by securing the copies of maps, charts, and books, to the authors and proprietors of such copies during the times therein mentioned, and also to the act, entitled "an act, supplementary to the act, entitled an act for the encouragement of learning, by securing the copies of maps, charts and books, to the authors and proprietors of such copies during the times there in mentioned and extending the benefits thereof to the arts of designing, engraving, and etching, historical and other prints. PINLIP MOORE,

Clerk of the District Maryland.

# AMERICAN FARMER.

## RUBAL ECONOMY, INTERNAL IMPROVEMENTS, PRICES CURRENT.

" O fortunatos nimium sua si bona norint

" Agricolas." . . . . VIRG.

Vol. I.

## BALTIMORE, FRIDAY, APRIL 16, 1819.

Num. 3.

#### AGRICULTURE.

FROM COBBETT'S YEAR'S RESIDENCE.

(Continued from No. 2, page 6.)

TRANSPLANTING.

the mode in order to insure a crop in spite of the right owner.

Fly: but, I am of opinion, that it is, in all cases.

However. Mr. Curwen, in his book, gives an I will now give a full account of my transplantthe best mode, provided hands can be obtained in account of the wonderful effects of moving the ing at Hyde Park. In a part of the ground,

tions possibly can.

occupied a part of the field, having a crop of call caped to mind, that, having once dug the ground plant in the ground; and strange as it may aprots on the one side and a crop of mangle wurtzle between some rows of part of a plot of cabbages, on the other side. On the 20th July the Tornips, in my garden, in order to plant some late peas or rather those of them which had escaped the percieved (it was in a dry time) the cabbages, stick, or dibble; a thing very well known to all Fly, began to grow pretty well. They had been the next morning, in the part recently dug, with gardeners in the case of cabbages, and about sown in drills; and I was anxious to fill up the lag drops of dew hanging on the edges of the which, therefore, I will give, by and by, very spaces, which had been occasioned by the ray. ages of the Fly. I, therefore, took the sopernu-no drops at all. I had forgotten the fact 'till I Thus puzzled, and not being able to spare time which I did also in two other fields.

nal places. But, it happened, that one side of the prepared a field of fire acres and another officield itself, came a cousin of one of these Church-above-mentioned piece of turnips, there was a valuation of twelve. I made ridges, in the manner described lers, who had lately arrived from England! It can the ploughman had finished ploughing between the ploughman had finished ploughing between the rows of turnips, I made him plough up that planted, my plants. I ascertained to an exact the aid of persons to pull up the plants and bring planted out about two acres, in the mornings and evenings of six days; for the those which had been transplanted in the rows son's land; and, though we read of much greater there was a friend staying with me, who helped throughout the mace. The cause of this remarks in agricultural mize reports, they must have us nlant, and who did, indeed, as much of the throughout the piece. The cause of this remark in agricultural prize reports, they must have us plant, and who did, indeed, as much of the able difference, I at once saw, was, that these had been of the extent of a single acre, or something work as Churcher or I. been put into newly ploughed ground; for though in that way. In my usual order, the ridges four The time when this was done, was from the

lit contains many authentic accounts of experi-wagon load, the turnips of which averaged elevments made by himself; though I never can think en pounds each; and, several weighed fourteen The RUTA BAGA or SWEDISH TURNIP of his book without thinking, at the same time, of pounds each. My very largest, upon Long Isthe gross and scandalous plagiarisms, which he land weighed twelve pounds and a half. In all has committed upon Tull. Without mentioning these cases, as well here as in England, the proparticulars, the " Honourable Member" will, I duce was from transplanted plants; though, at This is a third mode of cultivating the Ruta am sure, know what I mean, if this page should Hyde Park, I have many turnips of more than BAGA; and, in certain cases, far preferable to ever have the honour to fall under his eye; and fen pounds weight each from sour plants, some either of the two others. My large crops at Bothe will, I hope, repent, and give proof of his reof which on account of the great perfection in
ley were from roots transplanted. I resorted to pentance, by a restoration of his property to the their qualities, I have selected, and am now

sufficient number, just for a few days, or weeks, ground between plants in rows; and he tells us which was put into ridges and sown, I scattered as the quantity may be, when the lands and the of an experiment, which he made, and which the seed along very thinly upon the top of the proved, that from ground just ploughed, in a very ridge. But, however thinly you may attempt to Much light is thrown on matters of this sort by dry time an exhacation of many tons weight, per scatter such small seeds, there will always be too describing what one has done one's-selt relating acre took place during the first twenty four hours; many plants, if the tillage be good and the seed to them. This is practice at once; or, at least, that in the course of about a week, the exhalation good also. I suffered these plants to stand as it comes much nearer to it than any instruc-ceased; and that, during the whole period, the they came up; and they stood much too long, ground though in the same field, which had not on account of my want of hands, or, rather, my It was accident that led me to the practice. In been ploughed when the other ground was, exhal-want of time to attend to give my directions in the summer, of 1812, I had a piece of Rata Ba ed not an ounce! When I read this in Mr. Cur- the transplanting; and, indeed, my example too; ga in the middle of a field, or, rather, the piece wen's book, which was before I had read Tull, for I met not with a man who knew how to fix a occupied a part of the field, having a crop of car | I called to mind, that, having once dug the ground plant in the ground; and strange as it may ap-

merary plants, which I found in the unattacked read Mr Curwen; and I never knew the cause to do the job myself, I was one day looking at my places, and filled up the rows by transplantation, 'till I read the real Father of English Husbandry poor plants, which were daily suffering for want From this digression I return to the history, of removal, and was thinking how glad I should The Turnips, thus transplanted, grew, and in first of my English transplanting. I saw, at once he if one of the Churchers at Botley, who, I fact were pretty good; but, they were very far that the only way to insure a crop of turnips was, thought to myself, would soon clap me out my inferiour to those which had retained their origi by transplantation. The next year, therefore, I turnip patch. At this very time, and into the nal places. But, it happened, that one side of the prepared a field of five acres and another of field itself, came a cousin of one of these Church-

I had not read much of Tull at the time here feet asunder, and the plants a foct asunder on Elst of August, one Sunday and one day of no referred to, I knew, from the experience of my the ridge, there are ten thousand, eight hundred planting, having intermitted. Every body knows, whole life, that seeds as well as plants ought al-and thirty turnips on the acre of ground, and that this is the very hottest season of the year; ways to go into ground as recently moved as post-therefore for an acre to weigh thirty three tons and as it happened, this was, last summer, the sible; because at every moving of the earth, and each turnip, must weigh, very nearly seven very driest also. The weather had been hot and particularly at every turning of it, a new process pounds. After the time here spoken of. I had an dry from the tenth of August; and so it continof fermentation takes place, fresh exhalations a-acre or two at the end of a large field, transplant- led to the 12th of September. Any gentleman rise, and a supply of the food of plants is thus ed on the 13th of July, which probably weighed who has kept a journal of last year, upon Long prepared for the newly arrived guests.—Mr.Cur- fifty tons an acre. I delayed to have them weigh Island, will know this to be correct. Who would wen, the Member of Parliament, though a poor ed 'till a five happened in some of my tarm build-pave thought to see these plants thrive? Who thing as to public matters, has published not alings, which produced a further delay, and so the would have thought to see them live? The next bad book on agriculture. It is not bad, because thing was not done at all; but, I weighed one day after being planted, their leaves crumbled

between our fingers like the old leaves of trees. In two days there was no more appearance of a crop upon the ground, than there was of a crop on the turnpike road. But on the 2d of September, as I have it in my memorandum book, the plants began to show life; and, before the rain came on the 12th, the piece began to have an air, and, indeed, to grow and to promise a good

I will speak of the bulk of this crop by and by. but, I must here mention another transplantation that I made in the latter end of July. A plot of ground, occupied by one of my earliest sowings, had the turnips standing on it in rows at eighteen inches asunder, and at a foot asunder in the rows. Towards the middle of July I found that one half of the rows must be taken away, or that the whole would be of little value. Having pulled up the plants, I intended to transplant them (as they say of bishops) from the garden to the field: but I had no ground ready. Howe ver. I did not like to throw away these plants. which had already bulbs as large as hen's eggs. They were carried into the cellar, where they lay in a heap, till (which would soon happen in such hot weather) they began to ferment. This made the most of their leaves turn white. Unwilling, still, to throw them away, I next laid them on the grass in front of the house, where they got the dews in the night, and they were covered with a mat during the day, except two days, when they were overlooked, or, rather, neglected. The heat was very great, and, at last supposing these plants dead, I did not cover them any more. There they lay abandoned til the C4th July, on which day I began planting cabbages in my field. I then thought I would try the hardiness of a Ruta Baga Plant. I took these same abandaned plants, with ut a morsel of green left about them; planted them in a part of the piece of cabbages; and they, a hun dred and six in number, weighed when tiwere taken up in December, nine handce and one pounds. One of these turnips weighted twelve pounds and a half.

ground which had been got up in my best man ner; that it had some of the best of manure; and that uncommon pains were taken by myself in the putting in of the plants. This experiment shows, what a hardy plant this is; but I must caution the reader against a belief that it is ei ther desirable or prudent to put this quality to so severe a test. There is no necessity for it, in time the plants are out of the ground the better

But, as to the business of transplanting, there is one very material observation to make. The ground ought to be as fresh; that is to say, as recently moved by the plough, as possible, and that for the reasons before stated. The way I go on is this: My land is put up into ridges, as described under the head of manner of sowing. This is done beforehand, several days; or it may be, a week or more. When we have our plants and hands all ready, the ploughman begins and turns in the ridges; that is to say, ploughs the ground back again, so that the top of the new ploughed ridge stands over the place where the channel, or gutter, or deep furrow, was, before he began. As soon as he had finished the first is made, such it in a great measure remains, and

the second; and so on throughout the field. That this is not a very tedious process the reader needs only to be told, that, in 1816, I had fiftutwo acres of Ruta Baga planted in this way; and I think I had more than fifty thousand bashels. A smart hand will plant half an acre a day, with a hot sun follow, they are all baked together in a a girl or boy to drop the plants for him. I had a lump, and connot stir. On the contrary, when man, who planted an acre a day, many a time. But, supposing that a quarter of an acre is a day's work. What are four day's work when put in competition with the value of an acre of this invaluable root? And what farmer is there. who has common industry, who would grudge to hend his own back eight or twelve days, for the sake of keeping all his stock through the spring nonths, when dry food is loathsome to them, and when grass is by nature denied?

Observing well what has been said about earth perfectly fresh, and never forgetting this, let us now talk about the act of planting; the mere mechanical operation of patting the plant into the ground. We have a setting-stick, which should be the top of a spade handle cut off, about ten inches below the eye. It must be pointed smoothly; and, if it be shod with thin iron, that is to say, covered with an iron sheath, it will work fore smoothly, and do its business the better -At any rate, the point should be nicely smoothed. and so should the whole of the tool. The plant ing is performed like that of cabbage plants, but, as I have met with very few persons, out of the market gardens and gentlemen's gardens in England, who knew how to plant a cabbase plant, s I am led to surpare, that very few, comparative ly speaking, know bow to plant a turnio plant

You constantly hear people say that they wait for a shower, in order to put out their cabbage blants. Never was there an error more general and more complete in all its parts. Instead of crop must be thought a very great one. rains weather being the best time, it is the very bettace plant to an apple tree. I have proved the fact in scores upon scores of instances. The first But, it ought to be observed, that this was in I time that I had any experience of the matter was in the planting out of a plot of cabbages in my garden at Wilmington, in Delaware. I planted in dry weather, and, as I had always done, in being called away for some purpose, I left one row unwatered, and it happened, that it so continued without my observing it. 'till the next day.

The sun had so completely scorched it by the general; and indeed, the rule is, that the shorter | next night, that, when I repeated my watering of the rest, I left it, as being unworthy of my care. intending to plant some other thing in the ground occupied by this dead row. But in a few days, I saw, that it was not dead. It grew soon afterwards, and, in the end, the cabbages of my dead row were not only larger, but earlier in loaving, than any of the rest of the plot.

> The reason is this; if plants are put into wet earth, the setting-stick squeeses the earth up a gainst the tender fibres in a mortar-like state .-The sun comes and bakes this mortar into a sort of glazed clod. The hole mode by the stick is also a smooth sided hole, which retains its form, and presents, on every side, an impenetrable sub stance to the fibres. In short, such as the hole

ridge, the planters plant it, while he is ploughing the roots are cooped up in this sort of well. instead of having a free course left them to seek their food on every side. Besides this, the fibres get from being wet when planted, into a small compass. They all cling about the top root, and are stuck on it by the wet dirt, in which state, if out into the ground unicet, the reverse of all this takes place; and, the fresh earth will under any sun, supply moisture in quantity sufficient,

(To be continued.)

## ON TRENCH-PLOUGHED LAND.

AND HOW TO FIX THE PLOUGIL.

In Mr. Foung's Six Month's Tour, is noted an experiment tried in trench-ploughing; and we cannot do greater honor to him, than to give it to our readers in his own words, as follows:

The capital improvement effected in tillage, consists in trench ploughing, viz. A field of eleven acres was ploughed, the rent of which was seven pounds, and sown with barley, &c. and produced as follows: Six acres produced 170 bushels, which sold for 30l. Three acres were sown with turnips, and sold for 15l. Another acre was sold for 4/. Besides these articles, the field produced five bushels of vetches, which sold for 2l, three do of white peas, do, 1l, thirty do. of common potatoes, do. 4/ nine do. of early potatoe-, do. 2l. which is per acre, ol. 5s 5d. storling. This crop is, upon the whole, very considor ble. The land was before supposed to be very and, and the rent triffing, besides, this species of reprovement has been generally supposed to operate very little at first, the sourness of the under stratus, of the soil requiring some time to be sweetened and meliorated by the influence of the atmosphere, so that such product of the first

The next year the same land was sown, as beworst time, for this business of transplantation, fore, after trench ploughing, and yielded twenty whether of cabbages, or of any thing else, from a five per cent. over last year's proceeds. The third year it was sown with oats and beans, and yielded a profit the same as the first. We cannot avoid taking notice, that the trier of these experiments seems to have no idea of the grand point: namely, that of again turning up the sod, when the roots, &c. were all rotten and turned to masuch cases, I wat red the plants heavily; but I nure, which would certainly be the case, by the time the first crop was reaped. It appears that the success in crops was all produced from maiden earth, without any assistance from manure: but if the whole surface had been turned up, when rested or rotten by an inferior fallow year, the proprietor would have found it enriched beyond expectation, and might have promised himself. if possible, a double return; and it might have been worked with two horses in a plough, as the land would be light and mellow, after the first breaking up. We have had several experiments tried on different sorts of land, and every one proves, beyond a doubt, that, of all the improvements, none is equal to trench-ploughing.

How to fix the plough for trench-ploughing.

Though several learned authors have admitted. of the probable advantages of trench-ploughing, vet we do not remember one that has entered heartily upon the cause, or has pointed out a method how the farmer could period the work, with any reasonable degree of expense. When we

have fixed upon the ground to be trench plough- ploughing; it is so simple and easy that no doubt with chicken lice. Now, I have proved, by long also; consequently, the upper stratum, or what compiles the soil, is thick; in this case the first plough must be fixed so as to run quite under all the roots, by which the next furrow, when turned, will be all fresh mould, or what is called maiden earth, this being turned over the first furrow, which now less at the bottom of the trench, is what the corn is to grow in, the ensuing year, therefore must be a proper depth or thickness, for that pur pose; if the land have a tolerable good bottom you cannot go too deep, but if it be a very tough, hungry clay, or a poor, red or white sand, in either of these cases it may be prudent not to go so deep the first year, as the clay will be worse to break into small particles; but whether clay or sard, it may be too deep for the roots of the plants to penetrate through in order to feed in the under stratum, which they will stand in need of, in such poor soil; therefore, in such land, go a moderate depth the first year, and add a little more the next trenching, for an ensuing crop.

Any common plough, without altering, will turn the first furrow, and all that is wanted in the next is to add to the mould board a cast off board, in order to raise the second furrow over the first; and which board is fixed, after the following manner :row clean the breadth you intend it : suppose it be ten ches, measuring from the point of the wing to the land side, in this case the wing will be about five inches, you must have a thin plate of iron about two and a half inches broad, welded across the upper side of the wing of the socket, stretching from the breast of the plough to the point of the wing; about half an inch of one edge only is to be welded, the remaining two inches is to remain open in the nature of a flat socket, to admit a thin end of the turn-off board therein; the said turnoff board must be about four inches broad, and so long as will reach from the wing of the socket to the breech of the plough; it must be about two inches thick, and have a bracket at the bracket must bear upon the mould-board of the dishes, feed, &c. afforded by pumpkins, we shall plough, in order to strengthen the cast-off board, have a good and wholesome home made vegetable rises. There must run horizontally through this board, a small iron bolt, one end must be crooked An effectual method of preserving poultry houses like  $\hat{\mathbf{T}}$ ; this is to go into a long nich made in the breast of the plough; when in, it must turn half round that it may hold fast therein, by which means it will bind fast the turn-off board, without any other help than this boilt, the bracket under and one end ly interdicted all communications from farmeresses, being made thin to go into the socket, that is, in I must ask you to record a grand discovery, which the wing-share, it will be sufficiently strong. many inches thick as you have turned the first of-raising poultry. sod, so many inches the hind part of the board must be raised from the sole of the plough, mea- wives, to whom, according to the order prescrib- potatoes are boiled, is absolutely poisonous to suring at the breech, so that the sod (as soon as it ed by the lords of the creation, this department of hogs. parts from the wing of the share) rises gradually domestic economy has been assigned. It is well until it comes to the breech of the plough, then it known, that in this branch of our humble duties, a writer in the New-York Evening Post, who evituens fairly off and it falls upon the first furrow. the greatest difficulty arises from our poultry-dently belongs to the tribe of Potatoites; after

ed, our next step is to try the depth or staple of but any common ploughman may fix it for about \$1 what depth we would have it ploughed, and hix for trench ploughing, with a few philosophical reathe ploughs and irons accordingly. If the land sons, relating to the salts in the air, and the accibe good and deep, the weeds and grass run deep dents and diseases to which grain and seed is liable K. C.

## OIL OF PUMPKIN SEED.

C. S. KAFINSEQUE, Esq to Doct. SAMUEL MITCHELL. New-York, 20th Feb. 1819.

While I was at Harmony, on the banks of the ing to the pigs the seeds of their pumpkins, as is all the purposes of lamp oil and olive oil. It is less known. well known, that all the different species and varieties of pumpkins (genus cucurbita linnæus) afford WHEAT, TURNIPS, POTATOES AND PUMPKINS. an oil which has valuable medical properties, possessing in the highest degree the refrigerative quality; but I had never heard before of its being their capacity to yield nutriment for human and

of our enlightened farmers, to induce them to imihighly the practice, as likely to become eminently likely to be long and obstinate. beneficial. The pumpkin seeds afford their oil with the greatest facility and abundance. The first thing to be observed, is to have the wing They may be pressed like grape and flax seed — measure, equal to the untiring zeal and firmness of Their oil is clear, huspid pale, scentless, and when used for salad instead of sweet oil, has merely a faint insipid taste; it burns well, and without smoke. Those advantages entitle it to our attention as an indigenous production of first necessity. Pumpkins grow all over the United States. from Maine to Lousianna, and with such luxuriance, as to produce sometimes as much as 50,000 lbs. weight of fruits, and about 2000 lbs weight of seeds, in one acre of Indian corn without in- dirt, water, and straw. Taylor agrees, after trijuring the crop of corn. Those 2000 lbs. of seeds al, with Sir Arihur Young, that hogs will die bout 200 dollars. I calculate that about two millions of gallons of such oil could be made annually in the United States, from the seeds that are under side in the nature of a foot of a fender, which saving—and in addition to the bread, pies, soups, that is, it will transplant—the common turnip will oil for lamps and food.

free from vermin.

To the Editor of the American Farmer.

SIR-As I do not know that you have positive-As I consider myself to have made, in the noble art

It may save much trouble to my sister house-

experience, that they will not resort to houses the soil with a spade, and from this we can judge In my next I shall point out the proper season wherein the roosts, nest boxes, &c. are made of sassafras wood. You may smile, and ask me the reason of it: I tell you I am no philosopher -our business, you know, is with plain duty and matter of fact, almost denied the faculty of reason, and positively forbidden to exercise what we have; hence a learned woman, you know, is the most odious animal in creation and a lady dare not read a word of natural philosophy, at the expense of never getting married. But I tell you, Wabash, in the state of Indiana, last summer. I I know it to be a fact, and when you will tell me, sassafras wood will keep lice out of hen-houses: was told by the industrious German Society of the why it is, that chips of cedar wood or tobacco will keep wollen free from moth, then I will enusually done all over the country, they collected will keep away chicken lice—one is universally them and make an oil from them which they use for known to be true, the other no less true, though A SPINSTER.

A comparison has been instituted between the pretensions of these several articles, as respects It will be sufficient to mention this fact to some Each has its champion, and all have been assailanimal subsistence, from a given quantity of land. tate the worthy Harmonites, and I recommend nacity and zeal. The conflict, if not bloody, is ed, and de baded in their turn, with equal perti-

The two first have been taken under the pro-One tection of Mr Cobbett, and therefore have little measure, equal to the untiring zeal and firmness of their advocate.

As long as the Irish retain their character for gratitude, the potatoe will never want a champion; for they are not apt to forget, that "the friend in need is the friend indeed."

The pumpkin finds an able asserter of its pretensions, in the pen of Col. Taylor, of Caroline.

The potatoe is streneously denounced by Mr. on them, raw or boiled," and has no better opinion of turnips, but probably does not mean Mr. Cobbett's protege, the ruta baga or Swedish turnip, which, by the by, differs visibly, in at least not: it has a smooth cabbage leaf-the common turnip is known to have a very rough leaf. Again: It will remain through the winter in the field, with little or no depreciation-the common turnip will not.

We shall hereafter collect and collate, in one view, the evidence in support of each, leaving the husbandman to compare what has been said by different writers with his own experience; and to adopt his own conclusions. It has been asserted, that the potatoe is far more nutritious, when prepared by the operation of steum, and we have even heard it maintained, that the water in which

This is all the addition or alteration that is wanted houses being so much infested with vermin; or, which, the reader will find the cut of a machine for performing this valuable piece of work of trench to be more plain, in the slang of the poultry-yard, (with a descriptive explanation) for steaming po66 lbs.

taties and other roots, \* borrowed from the memoirs of the Agricultural Society of Philadelphia. " It will be admitted, that, in this country, 20 bushels of wheat, of Collis, is a good crop, and

far above the average of the state; and also, that land of such a quality will, on a par of seasons, yield 300 bashels of potatoes: which, when first taken up, will weigh more than 70 lbs. per bushel; for a bushel kept in a dry, open cellar all winter, and whose loss of weight must, from appearances, be considerable, weighs, this 30th March,

Sir H Davy, in his lectures (sec. 3, p. 133,) states the whole quantity of natritive matter, in 1000 parts of American wheat, to be 955, and in 1000 parts of potatoes to be from 200 to 260average, 230: thus, an acre of wheat, yielding 20 bushels, is 1200. If 1000 give 955, 1200 will give 1146, the actual quantity of nutritive matter in an acre of wheat. An acre of potatoes, yielding 300 hashels, of 70 lbs. is 21,000; then, if 1000 give 230, 21 will give 4830 lbs. the actual quantity of natritive matter in an acre of potatoes.

This root, then, is not, as Mr. Cobbett asserts, "uorse than useless," but on the contrary. worth at all times, at least one fourth more per bushel than wheat; or give it its full value and one acre contains more human food L'an four acres of wheat-1146+4=4584. This, at least, is the only true standard by which to estimate its value as the food of man. But Mr. C. says. value wheat at 16s, what are the roots worth relatively? It may be answered thus: Four acres wheat 80 hashels, \$160. One acre potatoes, 300 bushels at  $53\frac{1}{2}$  cents, \$160. Thus then, potatoes are relatively worth 53 cents per bashel, at 70 lbs when wheat is worth \$2 per bushel of 60 lbs.

As food for animals, the valuable properties of potatoes, are too well known to admit of question; with a little hay, they feed oxen; and, producing excellent beef and mutton; in cows. they greatly increase the secretions of milk; steamed, they fatten horses and hogs—the latter, however, not firmly; and of poultry, it may

form the only food. Mr. Cobbett dismisses the potatoe, as being, for cattle. sheep, or hogs, "the worst of all green or wet crops."—Swedish turnips, the very best.— But let us to the proof, 20 tons, or 640 bashels of 70 lbs. may be considered with us, a good average crop-total weight, 4-800 lbs. Sir H. Davy, (in the aforementioned table,) states-1000 parts of swedish turnip yields 64 parts of natritive matter. Then if 1000 gives 64-44800 will give 2867 1-5, the actual quantity of nutritive matter in an acre of Swedish turnips - The relative va-Jue of each, will therefore appear thus:

\* That our subscribers may more correctly appreciate the expense of conducting a work of this kind, they will excuse us for mentioning that this cut alone cost us \$10; yet, we shall have cuts made whenever we find them necessary, and can get them done, to illustrate the construction of either new implements of husbandry, or new systems of planting, or of cultivation.

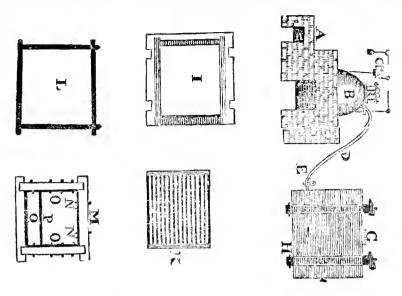
The generous encouragement given to the American Farmer, imposes the obligation to spare no pains in making it useful. To this object, therefore the Editor will devote his hours of lessure from official duties, with ple sure and zeal; satisfied, if the proceeds of the paper defray the expenses actually incurred in its publication, and if its circulation contribute, in some degree, to improve the practice of the hosbandman, on whose labors the comfort and wealth of all other classes so much depend.

One acre of wheat yielding 20 bashels of 60 lbs. gives of human food 1146 lbs. One acre of Swedish turnip, 640 bush-

els, 70 lbs. One acre of potatoes, 30 bushels, 70 lhs, 4830

and decide upon the foregoing statement; the accuracy of which, will, no doubt, determine him, whether he ought, or ought not, to continue the fashion of cultivating and eating such a "filthy" root as the potatoe, nine tenths of which, accord-It is in the power of almost every farmer to test | ing to Mr. C. consists of "dirt, straw, and water."

Description of a Steam Apparatus for boiling potatoes, turnips, &c. for cattle; communicated in a letter from Mr. John Bell, of Overton-House, England, to Mr. E. T. Grant, of Shrewsbury, New-Jersey. Communicated by Reuben Haines.



## EXPLANATION OF THE CUT.\*

A pot to heat water for the boiler.

B Boiler.

Cistern of hot water to supply the boiler, regulated by a float and valve.

D Steam-p:pe, 2 inches diameter.

E Stop cock to turn the steam on or off.

F Side view of the cistern or steaming box.

G Opening in the top to put in the potatoes, &c. to be tight closed while steaming.

H Strong wood coupling.

1 Bottom floor of the steaming box

K Second floor raised nine inches from the bottom and made of bars of cast fron.

The steam is introduced into the open space betwixt the floors, by means of the pipe D, and passes through the grate bars to the potatoes.

L Coupling frame to keep the cistern firm.

M End view of the steaming cistern without the door. N Hinges to hang the door.

O Frame, bolted to the sides, for the door to shut a gainst.

P Floor of grate bars.

## COMMUNICATIONS.

For the American Farmer.

TO THE LIEUTENANTS AND MIDSHIPMEN of the United States' Navy. No. I

to Lord Viscount Melville, first lord of the admicalty, by a "Post Captain," in the British navy.

Q Space for the steam betwixt the floors. The door to be made to fit as tight as possible, to I wevent the steam from escaping.

R A door for a boy to go in occasionally, to clean the bottom of the pan from sediment.

My steaming cistern, or box, is made with five large flags, or planks, and a wood door, the whole firmly held together with a strong wood coupling frame; they should not be less than two inches thick, and dovetailed together as the steam is very powerful. My boiler contains about 70 gallons, it is made of two cast iron pans with broad rims, one turned over the other and screwed together with a joint of paint and flannel; it should be about half full of water when in use.

\* The Editor of the American Farmer, recommends, for common use, on a small scale, a more simple contrivance, consisting of a large iron pot, put up in the usual way of a country still, and for the roots, a barrel to fit tight the top of the pot, with holes bored in the bot. tom. For a cut and explanation of this contrivance, see Bordley's System of Husbandry. We shall have the cut made and inserted in some future number of our paper.

the evils which his are intended to bring upon us. With the good of my country, then, in view: with the honor and glory of its navy as my guide. I appeal to you, who are to be their future support, their pride, or disgrace.

I shall not, like the "Post Captain," complain Gentlemen-Six letters have been addressed of the ingratitude of your country, or of those who administer its affairs. I shall not, like him, rely solely on those measures which are likely to op-Of the merit of these letters I have nothing to crate on your private interests, to produce results say, and but little of the facts therein stated, and honeficial to that country. I shall not endeavour the object of them is so obvious, that it is scarce- to stimulate you by the hopes of those rewards. ly necessary to trouble you on that; nor should habich it is the peculiar privilege of monarchy to they have been mentioned by me, but to justive bestow. I shall not insult you by endeavouring to the course I have taken in addressing you. His work on your vanity, your self-interest, or your letters are calculated to produce an effect in Eng- [resentment-1 shall appeal to your more exalted and, which is in opposition to the best interests feelings. Your country has extended to you her of this country; mine, I hope, will, in some mea- parental care; the navy is her favorite child; I sure counteract it, or at least, guard us against thuse who administer her affairs act in conformi-

ty with ner will; her honor and interest are yours, they are inseparable; and the highest reward you can hope to receive from her, is her applause. This she has bestowed when it was merited, and for whatever services you have rendered her, you have been most amply remunerated. I shall not, therefore, address such feelings as may be supposed to influence the officers of the British navy. I appeal, then, to your patriotism, your pride and your good sense. Perhaps I may not be found equal to the task I have undertaken, (which is to explain to you what are the true interests of your country, and, of course, your own) but I heg that my good intentions may be taken into consideration, and in whatever I may prove wanting, I ask of you to extend to me the same indulgence, which your country has extended to you, whenever you failed of success, for want of strength, and not of will.

I shall address you in the language of friendship, and as there is no friendship without candor. I shall be candid; it is the province of friendship to expose to us our faults. In the character, then, of a candid friend, I shall assume the privilege of guarding you against such errors as may be likely to operate against the interests of that country, for whom you have, at all times, shewn a willingness to lay down your lives, to serve. I hope I shall be able to do so without offending.

I may be asked, why I have confined this address to you? Why not extend it to higher class es? I answer, that the advance of officers in our navv. must necessarily keep pace with its gradual increase; that those whom I now address, are those who are most likely to be in command when our navy shall be in its greatest strength; that my advice to those whose experience has been our successful guide, would be more than unless -it would be presumptuous; besides, I am comparatively, young in years, perhaps actually more so than some whom I now address; and youth has no privileges over age. Besides, it is the nature of a man to wear away and to die; and even were it necessary to produce an effect on those, I should not make the exertion, lest when the time arrived, when benefits might be expected from them, their age or death might render them nugatory. You are advancing into life, you are the future admirals and commanders of our fleets, and it is now that you must prepare yourselves for the trust which is to be reposed in you, and render yourselves worthy of the confidence of your country. The honor of your country's flag shall be entrusted to you; thousands of human lives and millions worth of public property will be dependent for safety upon your skill. The applause of millions of freemen will reward your success; eternal infamy will punish your want of those qualifications, which your country has a right to expect of you, and for which she is now fostering you, when she can derive no immediate advantages from your service, equivalent to the benefits you receive.

Peace is the proper time to prepare for war .-Youth is the proper time to prepare for age. Now is the proper time for you to prepare yourselves for inguer stations. The writer of this, who entered the service at the commencement of our navy, and has passed through every grade to his present rank, and although he has been in constant employ, and cannot reproach nunsell with a

deficiency of zeal, had not the advantages which [hand, if you are, at the expense of your country, you now possess-our country had not aspired to rival England as a naval nation; we had not graptaught to believe, that

"The winds and seas were Britain's wide domain;" and it was not until after the flag of the tipermer was struck to the Constitution, that the most was dispersed from our eyes. What was done by one commander, was thought practicable by another; and it became at last almost fashionable to finish a cruise by the capture of an enemies vessel of su erior force; nay, our privateers sometimes grappled with their vessels of wa; and were successful. Thus, by a series of briliant victories, were you taught that Britons were not invincible; and, while that nation gave vent to its unavailing regrets and expressions of the utmost mortification, could not but acknowledge that it required all their efforts to oppose the bravery and skill of our navy. The nation was desponding—the navy their pride and their bulwark, had fallen in their estimation-their ships were half conquered ere a shot was fired, and our triumph was complete: one, and only one, solitary instance occurred to dampen our country's joy, and this a ose from want of skill in that class of officers whom I now address. Had not the gallant Law. rence fallen, it is my firm belief that the Chesapeake would have proved victorious.

Hosts of British writers have been employed to raise the drooping spirits of their nation and na vy; they have unceasingly endeavoured to spirit them up to one more struggle with "the young Hercules on this sale the Atlantic;" to this end every artifice is used that ingenuity can invent. or malice devise—our ships have been magnified in their dimensions and force; they would tainish the splendor of our victories, and would endeavour, by falsehood and misrepresentation, to raise the fallen crest of England's pride.

Our country, seeing the success which had the honor, integrity, bravery, abilities, and skill priations for the augmentation of her naval esop a larger naval establishment than at any form- llous to build up and maintain her factories. er period of her existence. Ficets have been sent! The only support of a nation consists in its own ed-wherever experience may be found, there our ships are sent, with as many officers as can be accommodated on board of them. Do you beheve that this arises from national vamity? from

to be instructed in the use of it, and if she asks nothing in return but the gratification of rewardoled with the lion on the ocean; we were almost ling you for its successful application, how unpardonable would it be in you to let slip the opportunity of profiting by her kindness? You would neglect your duty to yourself-you would neglect your duty to your country. Nay, more; you would be guilty of a fraud-you would be consuming her substance without any intention of making an adequate return for the support she gives you. Far be it from me to attribute to any of you, a motive so base. This would be placing you below the level even of British officers. But a hatever may be your motives, or whatever may be the cause, it is pardonable in me to express my regrets that so many of you are at this time on shore, when it is manifestly the wish of the country, that you should he at sea, and laying in a stock of experience for future exigencies. If you have not, heretofore, discovered what are the true interests of your country, and the mode of furthering them, let me, as your friend, admonish you :- disappoint not our country in its dearest, its fondest hopes. Suffer not the finger of reproach to be pointed at you; apply unceasingly at the department for active employ, and if you tail, let not the fault be yours. The race of honor is to be run-the prize is set before you, and it is worth preparing yourselves to contend for. Those who do not feel disposed to profit by the advice here given, are apprised that it will only be a waste of their time to read my next letter; they may employ themselves more agreeably in the pursuit of idle pleasures. I ask the attention of only those who are disposed to make themselvet useful to their country.

A NAVAL OFFICER.

FOR THE AMERCAN FARMER.

#### DOMESTIC MANUFACTURES.

The same patriotic spirit which prompts you to crowned the efforts of a few, and believing that devote a large portion of your paper to agriculan augmentation of its naval power was all that ture, may induce you to insert in it, occasionally, was wanting to insure to us complete success a few thoughts on domestic manufactures. The over the collossal navy of England, has given the future prosperity of our country will depend upon most unquestionable proof of her confidence in the growth of the latter not less than upon improvement in the former; and it is highly honoraof her naval officers, by the most liberal appro-ble to the state of Maryland, that her citizens are at the same time endeavouring to encourage her tablishment. She has done more: she is not on- husbandmen and her artizans; that while the ly willing to furnish the weapon, but the skill to agricultural society is active in promoting good use. In a time of profound peace, she has kept culture in her soil, the economical society is zea-

to the Mediterranean; single ships around the productions. Without dependence upon foreign world,-into the Indian ocean-to England-to aid or hability to insolvency, the inhabitants of Russia- to France- to Spain-others are still a country must subsist upon their own labor. fitting out. Wherever knowledge may be obtain- it is not necessary to their welfare that they should eat, drink, wear & use nothing, which has not been reared or wrought within their own territory, provided they can advantageously exchange the fronts of their own soil & industry the folly of parade and show? or from a prudent for the goods of other climes. But when they torethought of the manner in which the ships now have nothing to give which their foreign creditbuilding are to be officered? Have you any doubt ors will receive, or not a sufficiency of what they of the motiver why are all the means of instruc- will receive to satisfy their claims, it is unquestition furnished you? means, which I have more onably the part of prudence to tive without than once regretted that I had not the good for- loreign goods, rather than incur an unextinguishcune to profit by, at an earlier period of my life. Table debt, and plunge themselves headlessly into If, then, the weapon is to be placed in your the deep miseries of poverty and dependence.

These general propositions are plain, & all rea for two others, excepted) may be completely re dily assent to their truth. But there may be some difficulty in determining what should be done in own spades, shovels, knives, forks and plates; stems, and put them into cold water. another, on the contrary, might assert that they ought to use those made by the people of Eng- out a Patent for a most useful and ingenious inland. Or if there should be no difference of opi-vention, viz. a Moveable Axle applicable to all nion in regard to some things there might be in four-wheeled carriages. Its advantages over the regard to others; so that a considerable num-stiff axle are numerous-A carriage with the ber would object to the encouragement of do- Moveable Axle will turn in a much more limited mestic manufactures in general, and particularly to the manufacture of cotton and flax.

will be to show the unreasonableness of the object manner, a safeguard against accidents in turntions generally urged on this subject and the wis-ling, the wheels never changing their position, dom of encouraging the useful arts in America, in order that she may be a nation of wealth, power. OPIFICE AMICUS and independence.

#### MISCELLANY.

To make Naples Biscuit.

One pound and a half of floor, the same quantity of sugar, 9 eggs, half a pint of rose water: beat the eggs well, put the rose water in by degrees, then mix the flour and sugar together, put in by degrees.

French mode of making Brandy-Peaches.

Preserved fruit is generally cloving, and of tentimes unwholesome to the stomach, becausof its unmixed sweetness, arising from the manner in which they are usually prepared.

The most grateful preparation of the peach we have ever seen, is that which is accomplished by

the following process:

Scald them in hot water, then dip them in hot strong lie, rub them with a cloth and throw them into cold water; make a syrup of 3-4 pounds of sugar to one pound of fruit, and when cold put an equal quantity of brandy.

#### PERSIMMON BEER.

The following receipt for a very pleasant beverage, is published verbatim, as it was furnished us by a particular friend. Mr. Jefferson's Receipt

free from any roughness, work them into large loaves with bran enough to make them consistent, bake them so thoroughly that the cake may be brown and dry throughout, but not burnt, they are then fit for use; but if you keep them any time, it will be necessary to dry them frequently, in an oven moderately warm. Of these loaves broken into a coarse powder, take eight bushels, pour on them 40 gallons of cold water. & after two or three days draw it off; boil it as other heer, hop it: this makes a very strong beer By putting 30 gals, of water in the same puwder and letting it stand two or three days longer you may have a very fine small beer.

Effect of Hot Water on Flavers .- By the following process the lovers of flowers will be enabled to prolong, for a day, the enjoyment of their short lived beauty.

Most flowers begin to droop and fade after being kept during 24 hours in water: a few may be revived by substituting fresh water; but all (the flourished remarkably, and produced an ex-

stored by the use of hot water.

For this purpose, place the flowers in scalding particular cases, and consequently some disagree- water, deep enough to cover about one third of ment in the opinions of different persons. If for the length of the stem; by the time the water has instance, one man should say that Americans become cold, the flowers will have become erect ought to make their own hats and boots; their and fresh; then cut off the codded end of the

Moveable Axle .- Mr. Ackermann has taken space: It permits a carriage to be built shorter, and of course diminishes the draught-It affords Our object, in such attempts as may be made, complete security against upseting, and is, in like but only their direction .- With the Moveable Axle the fore-wheels can be made much higher, while the hody may be hung lower. A high forewheel adds much to beauty of a carriage, while it also greatly reduces the draught, & surmounthstructions with much greater facility. It is by no means so liable to break as the stiff axle; and the breaking of the perch-bolt is rendered next to impossible. A carriage with a Patent Moveable Axle requires hut 6 pieces of timber, including the pole, instead of 20. This gives the carriage an airy appearance, & reduces the rattling noise.

Lithography.-The art of Lithography continues to make most rapid progress in France, from the rival exertions of Count Lasteyrie & M. Englemann: their spirited emulation has done for it what a monoply would not have accomplished in a century. Under Count Lasteyrie's care it rivals copper in almost every line of engraving, and possesses, hesides, advantages peculiar to itself. A series of Lithographic prints, by count Lasteyrie, is now published at Paris; the second number of which containing 6 plates, has just appeared; the 6th plate is written music, or, as the Lithographers denote it, autographed music

The method by most important advantages of Lithography: a person writes a letter, composes music, or makes a drawing on paper in the ordiuary way, excepting that he uses a peculiar ink, this is transferred to the stone by simply passing "Gather the persimmons perfectly ripe and it through the press, and the stone, without further preparation, is ready to print off thousands of proofs, all equally perfect.

It is this quality of Lithography, that has secured its admission into all the French public offices; by its means 60,000 or 70,000 proclamations in the autograph of the Minister, may e taken off and dispatched before the plate could even be engraved.

LIMING SEED WHEAT.

A respectable correspondent informs us, that unslacked lime has been found to answer an excellent purpose, in preparing wheat for seed. The gentleman states, that he put about 4 or 5 pounds of quick lime into a sufficient quantity of water to soak I bushel of wheat, which he sowed the last spring, then added the wheat, and permitted it to remain about twelve hours. The lime by slacking, raised the temperature of the water to blood heat, and the wheat became soft and apparently parboiled. On sowing it, however, it sprouted much sooner than usual.

of smut. The above is probably the least expensive, and most efficacious mode of preparing wheat for seed, that has yet been discovered.

Mr. Amos Wood, of Boston, on the 30th March 1818, brought from the Concord, Mass. to Boston, a female hog, which then weighed 596 lbs. and has kept her ever since in that town. She was weighed again on the 80th of March, 1819, when she weighed 1106 lbs. in 365 days, and is now apparently thriving more rapidly than ever--ller food is varied every day, and she has a salt fish, and the water in which it is boiled, once a week: She has never had but one litter of pigs, and one of those now weighs 600 lbs. She girts 7 1-2 feet, and is 8 feet long.

We have just received the first number of a new paper, published in Claiborne, Alabama Territory.—It carries a profitable appearance, and, is extremely well printed. It contains an interesting article to emigrants, from which we

copy the following:

The town of Claihorne has natural advantages that will always insure its prosperity.-It is situated equi-distantly from Mobile, Blakely and Pensacola, to all of which places the best of roads can be had with no more labor and expense than cuiting down the patural growth of the country. Its elevation of two hundred feet above the water in the Alabama river, gives it an appearance truly romantic; the view from it to the west and northwest is equally picturesque and pleasing. It is watered by innumerable springs of clear and pure water, which issue from the bluff, and precipitate themselves into the river below, forming beautiful cascades-five considerable streams of water empty into the river, within eight miles of the place, affording large tracts of fertile land, which are now settled by rich and respectable planters from the Carolinas and Georgia. Experienced and able merchants from Boston and New-York, aware of the importance of the place, have settled themselves permanently here, and are realizing the profits of their foresight. Two thousand inhabitants, thirty stores, two female seminaries, and a grammar school, afford ample proof of the eligibility of the site for a town, and the capacity of the neighboring country to sapport it."

Day of Fat things .- Of the numerous improvements of which our country can boast, that made in rearing Hogs is perhaps the most extraordinary, and ought to confer on the individuals who have been instrumental in introducing and promoting in our country breeds so capable of improvement, the proud title of Public Benefactors: This remark occurred, from learning that one of our merchant victuallers purchased no less than sixty thousand weight of pork, principally raised in New-Hampshire and Vermont. We saw about thirty of the animals which composed the purchase, and which, for whiteness of flesh, smallness of bone, thinness of skin & ears, and plumpness of body, could not be exceeded. Some of them we learn, before slaughtered, could scarcely see, were unable to rise on all their legs, and were fed in a recumbent position. We were told by the drivers, that a Farmer in one of the upper towns in New-Hampshire, has in one pen twenty pigs, which when slaughtered, it is supposed, most fugacious, such as the poppy, & perhaps one cellent crop, entirely free from any appearance will weigh eight thousand weight; and that a

another neighbouring farmer has twelve others, I which are expected to weigh 6000 wt.—Bos. pap.

#### STATUE OF WASHINGTON.

This elegant Work, by the celebrated Carnova of Italy, which is to grace the North Carolina State House, we learn, is nearly completed, and may be expected here in the course of twelve months. A letter from Mr. Appleton, our Consul at Leghorn, to his Excellency Governor Branch, thus describes the statue :

"The inscription is placed on the architrage of the front part of the predestal; below is represented Lord Cornwallis delivering the sword to Gen-Washington: in both groups appear about twelve military figures. No. 2. represents Washington resigning his commission into the hands of the President of Congress, at the close of the war. No. 3, is Washington receiving the unanimous suffrage, which places him at the head of the government, and No. 4, is Washington, holding a plough, drawn by two oxen; behind is an humble cottage near to which are seen Ceres and Mercury, with their soitable emblecas."

### BALTIMORE.

#### FRIDAY, APRIL 16, 1819.

PROSPECTS FOR WHEAT Advantages of harrow ing small grain confirmed

Since the date of our last number, we have had the pleasure to converse with Mr. Cockey, a farmer of great respectability and extensive posses sions, residing near Westminster in Frederick county from whom we had the pleasure to learn. that the prospects for wheat at this season, were never hetter, within his recollection. Its promis ing appearance is attributed to the mildness of the winter and the numerous snows, since the commencement of the severe frosts, the last of February and through the month of March

He fully confirmed the correctness of our suggestion respecting the advantage that would probably result from harrowing small grain in this month. Hs says, that last year, be had occasion to remove a harrow from one field to another, to harrow in oats, and that he made the hoy take a breadth in crossing a wheat field, and, in returning, he passed the harrow close along side the former breadth so that there was twice the breadth of a two-horse iron-tooth harrow dragged over.

At first, it looked as if nearly all was torn up by the roots, and his neighbours who saw it, united with him in the apprehension, that he had almost utterly destroyed so much of his wheat; immediately, however, after the first rain which succeeded, the wheat so harrowed, and so apparently destroyed, spread out and grew off with amazing raps dity, assumed a deep green color, and maintained, throughout the whole year afterwards, a visualsuperiority, which was consummated, as he verily believes, by a considerably increased quantity of grain. He says it seemed to have the same effect as a good working of any other crop, and he means to report the experiment on a much larger scale this year.

FIRE !-At about 1 o'clock, P. M. on Saturday tast.: Fire brook out in the extensive range of buildings, at the intersection of Vine-st, and the Ridge Road, Philadelphia, occupied by Mr. Oliver Evans as a foundary, and factory. The buildings were nearly destroyed:

Translated by the Editor, from the volume of " Archives of discoveries, and new inventions," for the year 1818.

#### LACTOMETER.

AN INSTRUMENT TO DETERMINE THE QUANTITY OF CREAM THAT MILK WILL PRODUCE.

It is well known, that the value of mick, is determined by the quantity of cream which it affords, out this quantity varies, according to the cow's health, age, and the nature of her food.

SIR JOSEPH BANKS, President of the London loyal Society, has made a very simple instru nent, which the intelligent husbandman will not fail to use, and whereby he can ascertain, with precision, the quantity of cream which may be procured from the milk either of different cows, or from the same cow, sustained on different food,

This instrument is made with a certain number of glass tubes, of the same internal diameter; that is to say, about  $\frac{3}{4}$  of an inch. and 14 inches long.

These tubes are closed below, & open at the top, and are all supported in a vertical position, in the ame manner, upon a wooden or any other frame

Within ten inches of the bottom, every tube is numbered O (zero) from which above and below. hany divisions are made, to the extent of three inches, each one at the distance of one tenth of in each, apart, and consequently corresponds to 1 100 part of the total length of the tube.

Now if several of these tubes are lilled at the one time, with fresh milk, and exposed to the one temperature, the cream will arise at the top I the column, and its thickness will be exactly indicated by means of the external divisions.

The influence of the different kinds of pastures may be established without difficulty. (Journal of Sciences and the Arts, July copy, 1818.)

#### THE CIRCULAR SAIV.

of the 28th ult. contains a description of the construction and mode of operation of the Belt Saw | zle, Cabbages of the finest sorts, for the table and for said to be "newly invented" by Mr. Adam Stewart.

griculture and Domestic Economy, which have resale, the First and Second Parts of my Year's Residence, cettils fallen into the hands of the Editor of the in which is described the mode of cultivating the seve-American Farmer, are the volumes "Discoveries and Modern Inventious," coming down to 1818, sentleman would wish to have the work complete He has also for sale some of my English Grammar, two ediinclusive. In the one containing Discoveries tions of which, of five thousand each edition, were sold made in 1815, we find a minute description of the in London between the middle of December and middle Belt or Circular Saw, which we had translated for of February, when the third edition was published. this paper, but the want of room compels us to postpone it to the next. The credit of the discovery is given to M. Tourade.

#### SAVING BANK INSTITUTION.

A late Boston paper, by vote of the Institution, exhibits an accurate statement of the condition of the Savings' Bank in that town. It appears, that and Saturday, opposite the Horse Market, in the Marsh the number of deposits, from \$1 up to 1037 is 1385; that the whole amount now in fund, is (including dividends not paid) \$152.873-86. This sum has been gathered from the hard earnings of the poorer class of society, and instead of dus is placed in a condition to operate a general Sexcellent as ortment of Garden and Flower Seeds being squadered, as heretofore, their little surand Roots, which, with the stock already on hand renders my assortment complete. As time is fast approachders my assortment complete. As time is tast approachables have afforded them very little opportunity fug to use those articles, persons in want will find it to of tasting of the blessing of —interest! Their scale their advantage to supply themselves in time, by call-finiterest we are unacquainted with; but supposing at my Nursery and Flower Garden, N. Lexingtoning the depositors intified to 5 per cent, there extended, or at Nicholas Bonnefin's, No. 18, Commerce extended, or at Nicholas Bonnefin's, No. 18, Commerce extended, or at Nicholas Bonnefin's No. 18, Commerce extended ext and annually be distributed among them, the sum of \$7643-70, and the principal saved.

Exhibition of fine Horses and " their premiums.

## Easton Jockey Club Races.

Will be run for on Wednesday the sixth day of October, the first day's Jockey Club Purse of the whole subscription of the members, the four mile heats.

On Thursday the 7th day of October, the Town's Purse of all the subscription money for that purse with ten per cent. enfrance by members, and twenty per cent. entrance by gentlemen not members, to be added to the purse, the three mile heats.

On FRIDAY, the Jockey Club Colt's Purse of all the gate money of the three days, the two mile heats.

JESSE SHEFFER, Sec'ry.

The owners of fine Horses are invited-"ubium J. S. Sec'ry.

## New London Books.

UST RECEIVED by the Franklin-Shakespeare, Genius Justified-being Restorations and Illustra tions of Seven-Hundred Passages in Sliakspeare's Plays -By T. JACKSON.

The Annual BIOGRAPHY and QBITUARY for the

ST. PATRICK, a National Tale of the 5th century, 3v-COQUETRY, a novel in 3 vols.

CAMPBELL, or the Scottish Probationers, a Novel

WILL BE OPENED TO-MORROW.

A select assortment of STATIONARY, by the Franklin N. G. MAXWELL,

April 16-4t

No. 140, Baltimore st.

## Cobbett's Seeds and Books.

HIAVE sent my servant James Hammerton, to Baltimore, to sell for me seeds just imported from England. He will sell at such spot in the Mirket place, as That valuable paper, Niles' Heekly Register, he shall point out, or at such other place as he may think most convenient, seed of the Ruta Baga, Mangle Wurcattle; Turnip, first sort for the garden and the field; Amongst other valuable French writings on A- Clover, and divers other seeds. Hammerton has also for ral plants. He has also the Third Part for sale, if any

WM. COBBETT:

James Hammerton, mentioned above by Mr. Cobbett, gives public notice, that he has arrived in Baltimore, and has taken a stand under the store of L. Holmes, jr. in Lexington-street, two doors from Paca street, opposite Market. April 16.

## Flower and Garden Seeds, &c.

April 2-4t,

## Robinson's Weekly Magazine,

CONSISTING PRINCIPALLY OF CHOICE SELECTIONS

FROM THE FOLLOWING

English Magazines and Reviews, Which are received regularly every month, by the publisher, viz -

The Edinburg. Blackwood's Edinburg.. The Gentleman's.. The Sporting .. The Monthly ... The New Monthly and, Bon Ton Magazines :

The Literary Panorama ... The Lady's Museum ... Literary Gazette ... La Belle Assemblee, and Ackerman's Repository:

The Edinburg, Eclectic, British Critic, and Critical Reviews.

The above work is handsomely printed on a fine medium paper-each number contains 16 pages octavo and is stitched in a cover. Price of subscription, FOUR DOLLARS a year, payable half yearly. The first volume ended on the 31st Dec. last, but subscribers may begin with the first or second volume. Letters addressed to the publisher, post paid, will be attended to.

From the flattering manner with which the work has been received, there is no doubt of its being a permanent and v luable Miscellany-Published every Saturday merning; and safely transmitted to any part of the United States, by

JOSEPH ROBINSON,

Circulating Library, No. 94 corner of Belvidere and Market Streets, Ballimore. WHO HAS FOR SALE,

A general and extensive assortment of BLANK HOOK + AND SILE TONARY: Mathematical Instruments, in mahogany & skin cases, Penknives. pocket Books, and Pencils; Nine and 12 inch GLOBES, of the latest and most ap-

proved editions. Backgammon Boards, Chessmen, Dominos, &c.

ALSO,

## All the NEW MUSIC

For the Piano Forte, Finte, Violin, &c. Orders from distance, promptly attended to, and Music carefully packed up and sent as directed-Mucic bound to order. Two very fine tone I Bagt so 14ANO 5 % for sale-Flutes, with 1, 2, 4, 6 and 8 keys-Clarionets -Fifes-Violins-Guitars Double and single Flageolets. Orders for other instruments attended to. Ap. 23.

## Fresh Garden & Flower Seeds.

HE following imported Seeds were selected by one of the first Gardeners in the country, who went to Europe expressly for the purpose. Likewise, are received, an assortment of the celebrated Shaker's Seeds.

Among them are the following. viz.

15 kinds of Beans, 6 ditto Raddishes, 7 ditto Peas, 7 ditto Cucumbers, 20 ditto Cabbages, 9 ditto Lettuce, 6 ditto Turnips, 3 ditto Onions; Asparagus, Celery (solid), curled Parsley, Garden Cresses, round and prickly Spinach, Sweet Marjoram, Mangle Worzel, Salsafy, or Vegetable Oyster; Cauliflower, Carrots, Melons, &c. 100 kinds of Flower Seeds Also, the Gentleman and Gardeners Calendar, containing full instructions res pecting Gardening, for sale at No. 223 1 2 Market street, opposite the Farmers' and Merchants' Bank.

April 2-8t.

## F. .. ETTS,

BOOKSELLER AND STATIONER, 4, South Calvert, and 57 1-2 Market streets,

HAS just received Cap and Letter Paper, English, of superior quality; English Ink Powder, Wafers, Sealing Wax, Durable Ink, Drawing Paper, Mathema ical Instruments, Slates, &c; Ledgers, Journals, Day, Mem oran tum, Receipt, Letter and Invoice Books, var ous sizes. All new Publications regularly received. School. Clasical, Medical, and Miscellaneous Books in the great est variety.

Country Merchants, Preceptors of Academies and . chools, Purchasers of Libraries & others, supplie. on the same terms as heretofore, by wholesale or re April 30. tail.

## PRICES CUERENT

AT BALTIMORE:

Carefully Revised and Corrected every	<b>T</b> hur	sday.
ARTICLES.   FER.   R	ETAIL	PRICES
EEF, Northern mess) - bbl.	15	
No 1 wholesale.	10]	
Sacon Ib.	16	
Butter, Ferkin, wholesale.	18 33	
offee, first quality, second do	27	28
otton,	17	
Twist, No. 5.	41 75	4
No. 11 a 20,	53	
No. 20 a 30,	75 33	
hocolate, No. 1, No. 2,	29	
No. 3,	25 20	
andles, mould, box	18	2
spermaceti,		scarce
hecse, American, eathers,	10 60	1 6
ish. cod. dry  qtl.	<b>3</b> 50	
herrings, Susquehannah, mackarel, No. 1 a 3	6 6	new 9
shad, trimmed,	7 75	7 8
lour, superfine,	5 50 5	6 5 5
fine, bbi.	4 50	5
гуе,	4 a	4 2
cleaned,   cass cleaned,   bush	do	
1ax, 1b.	do 12	1
ides, drycd,	12	1
euther, soal, -	25	3
olasses, Eavana, gal.	45 50	5
sagar house,	1	İ
nl, spermaceti, - gal.	1 50 :8 α	19
prime td do	15 a	16
cargo 3d do.	14 a	15
ground   bbl.	1 75	
lb. lice, PIRITS, Brandy, French, 4th proof gal.	2	2 5
peach, 4th proof	1 25	1 5
apple, lst proof Gin, Holland, ist proof	75 1 25	
do. 4th proof		
do. N. England Rum, Jamaica,	50 1 50	
American, 1st proof	50	(
Whiskey, 1st proof soar, American, white, 3b.	35 18	
do. brown, -	9	1
ugars, Havana, white.	11	12
loaf,	25	
alt, St. Ubes,   lb.	20	1
Liverpool, ground,	75	1
hot, all sizes,   lb.   OBACCO, Virginia fat,   cwt	7 12	
do. middlings,	6 50	
Rappahannock,	6 50	5 3
Kentucky, small twist, manufactured, lb.	25	<b>i</b> :
pound do	5(	
EAS, Bohea, ih.	6:	
Hyson Skin	1 23	
Young tlyson, Imperial,	1 75	
OOL, Merino, clean,	60	-1
unwashed, - crossed, clean,	6	1
unwashed, -	3	
common country, clean, unwashed	2.	5
skinner's,	3	57

#### RATES OF EXCHANGE.

OF BANK BILLS.

Corrected monthly for the American Farme:

1	
	Branches of the U. States' Bank not par
-	
	l
	•
	NEW-YORK.
	City Banks par
	NEW-JERSEY.
	State Bank Camden par
S	Trenton, Newark, and Brunswick, dis-
	Mount Holly Bridgetown, &c. 1 do.
5	PENNSYLVANIA.
6	Philadelphia, par a a3-4
۰	Stephen Girard's Bank, par a do.
	Chester, Easton, Harrisburg, Montgomery, dis. 2
	fiulmeville, Germantown,
	Carliela Pault Chambarshung Cattrahung
	York, Lancaster, and Columbia Bridge, 1 1-2 a 2 de
_	Carlisle, (Agricultural) nominal.
9	
5	Westmoreland, Bedford, Brownsville, nominal.
5	Meadville, Centre, Huntingdon, Milton & Houndard
5	DELAWARE.
	Bank of Delaware, 1 a 1 1-2
3	Wilmington and Brandywine, a 1 1-2
	State Bank at Dover, and Branches, a 1 t-2
7	
	Smyrna and Milford, 8
'n	DISTRICT OF COLUMBIA.
	Geo getown Banks, 1 dis.
	Alexandria Banks, (excepting the Me-),
	chanics and the Franklin.
	Mechanics of Alexandria, 20
	F. anklin of Alexandria, 50
,	Non-Court
5	JBank of Virginia. Farmers' Bank and I
5	Branches, 1 1-2
10	
1	Total and Deutemakers
(	NORTH CAROLINA.
	State Bank and branches 6 1-2 do.
	Newbern and Cape Fear 7 1-2 dis.
	Bank Bills SOUTH CAROLINA AND GEORGIA.
	-2.00
	OHIO.
	Chillicothe, Marietta, Muskingum, Urban.
	na, Stubenville, &c.
51	Mount Fleasant, Montpotter, New Ciscon,
	St. Clairsville, &c.
	1

## District of Maryland, to wit.

BE IT REMEMBERED, that on the nineteenth day of
March, in the forty third year of the independence of the United States of America, Joseph
SEAL OF A book the right whereof he this office the title of a book, the right whereof he claims as author, in the words following, to wit.

"The Farmers and Gardeners' Hive, shewing the ex-28 pense and profit attending the cultivation of three hundred acres of land, and so in proportion for any other quantity, and the work necessary to be done on a Farm and in a Garden, for every month in the year. Also a Treatise on the Cultivation of the Peach. To which is added a number of Receipts, to protect all sorts of Fruit trees, Vegetables, &c from all sorts of diseases, 50 in ects, electricity; and to insure an abundant crop of 50 fruit. For all states in the Union."

In conformity to an act of the Congress of the United 75 States, entitled "an act for the encouragement of learning by securing the copies of maps, charts, and books, 00 to the authors and proprietors of such copies during the 50 times therein mentioned, and also to the act, entitled 50 ' an act, supplementary to the act, entitled an act for the encoura ement of learning, by securing the copies of maps, charts, and books, to the an hors and proprieters of such copies during the times therein mentioned and extending the benefits thereof to the arts of design-.ng, engraving, and etching, historical and other prints."

PHILIP MOORE, Clerk of the District of Maryland.

# AMERICAN FARMER.

## BURAL ECONOMY, INTERNAL IMPROVMENTS, NEWS, PRICES CURRENTS.

" O fortunates nimium sv i si bona novint " Agricolas." . . . . VIRG.

Vol. 1.

## BALITIMORE, FRIDAY, APRIL 23, 1819.

Num. 4.

#### AGRICULTURE.

The Ruta Baga or Swedish Turnip.

FROM COBBETT'S YEAR'S RESIDENCE.

(Continued from No. 3, page 18.) Yet, in July and August, both in England and America, how many thousands and thousands are then, when the long-wished for shower comes, they must plant upon state ground, for they have it dug ready, as it were for the purpose of keeping them company in waiting for the shower. has once taken place, farewell to the spade! For the point or bottom of the raot. And thus all is it appears to be a privilege of the Indian Corn safe, and the plant is sure to grow. to receive comething like good usage after being planted. It is very strange, that it should have been thus; for, what reason is there for hole, draws the earth up against the upper part other plants not enjoying a similar benefit. The of the root, or stem, and, if he presses pretty reason is, that they will produce something without it; and the Indian Corn will positively prodece nothing; for which the Indian Corn is very much to be commended As an instance of this effect of deeply moving the earth between growing crops, I will mention, that, in the month of June, and on the 26th of that month, a very kind neighbour of mine, in whose garden I was showed me a plot of Green Savoy Cabbages, which he had planted in some ground as rich as ground could be. He had planted them about three weeks before; and they appeared very fine indeed. In the seed bed, from which he had taken his plants, there remained about a hundred, but, as they had been left as of no use, they had drawn each other up, in company with the weeds, 'till they were about eighteen inches high, having only a starved leaf or two upon the top of each. I asked my neighbour to give me these plants, which he readily did: but begged me not to plant them, for, he assured me, that they would come to nothing. Indeed they were a ragged lot; but, I had no land, I had infinite difficulty in making my planplants of my own sowing more than two inches high. I, therefore, took these plants, and dug some ground for them between some ruws of scarlet-blossom beans, which mount upon poles. I cut a stick on purpose, and put the plants very deep in the ground. My beans came off in August, and then the ground was well dug between the rows of cabbages In September, mine had far surpassed the prime plants of my neighbour. And in the end, I believe, that ten of my cabbages would have weighed more than a hundred of his, leaving out the stems in both cases. But his had remained uncultivated after planting. The ground, battered down by the successive heavy rains, had become hard as brick All the stores of food had been locked up, and lay in a dormant state. There bad been no renew-

Having now said what, I would fain hope, will

ed fermentations, and no exhalations

for a shower, in order to transplant plants of any sort, I will now speak of the mere act of planting, more particularly than I have hitherto spo-

The hole is made sufficiently deep, deeper than the length of the root does really require; but the root should not be bent at the point, if it can be avoided. Then while one hand holds waiting for a shower to put out their plants! And the plant, with its root in the hole, the other hand applies the setting-stick to the earth on one side of the hole the stick being held in such a way as to form a sharp triangle with the plant. Then pushing the stick down, so that its point goes a Thus all the fermentation, which took place up- little deeper than the point of the rot, and givon the digging, is gone; and, when the planting ing it a little twist, it presses the earth against

The general and almost, universal fault is that the planter, when he has put the root into the well there, he thinks that the planting is well done. But, it is the point of the root, against which the earth ought to be pressed, for there the fibres are; and, if they do not touch the earth closely, the plant will not thrive. The reasons have been given in former Paragraphs, in speaking of the sowing of seeds It is the same in all cases of transplanting or planting. Trees for in stance, will be sure to grow, if you sift the earth or pulverize it very linely, and place it carefully and closely about the roots. When we plant a tree, we see all covered by tumbling in the earth; and it appears whimsical to suppose, that the earth does not touch all the roots. But the fact is, that unless great pains be taken, there will be many cavities in the hole where the tree is planted; and in whatever places the earth does not closely touch the root, the root will mould, bea poor tree.

When I began transplanting in fields in Engters attend to the directions, which I have here given " The point of the stick to the point of the root," was my constant cry. As I could not be much with my work-people, I used, in order to try whether they had planted properly, to go after them, and now and then take the tip of a leaf between my finger and thumb. If the plant resisted the pull, so as for the bit of leaf to come away, I was sure that the plant was well fixed; but if the pull brought up the plant out of the ground, then I was sure, that the planting was not well done After the first field or two, I had no trouble. My work was as well done, as if the whole had been done by myself. My planting was done chiefly by young women, each of whom would plant half an acre a day, and their pay

was ten pence sterling a day.

What a shame, then, for any man to shrink at the trouble and labor of such a matter! Nor let

poor miserable, ragged, squalid creatures. They were just the contrary. On a Sunday, they appeared in their white dresses, and with silk umbrellas over their heads. Their constant labour afforded the means of dressing well, their early rising and exercise gave them health, their habitual cleanliness and neatness, for which the women of the south of England are so justly famed, served to aid in the completing of their appearance, which was that of the fine rosycheeked country girls, fit to be help mates, and not a burden, of their future husbands.

But, at any rate, what can be said for a man that thinks too much of such a piece of labour? The earth is extremely grateful; but it must and will have something to be grateful for. As far as my little experience has enabled me to speak, I find no want of willingness to learn in any of the American workmen. Ours, in England, are apt to be very obstinate, especially if getting a little old. They do not like to be taught any thing. They say and they think, that what their fathers did was best. To tell them, that it is your affair, and not theirs, is nothing. To tell them that the loss, if any will fall upon you and not upon them has very little weight. They argue, that, they being the real doers, aught to be the best judges of the mode of doing And indeed, in most cases, they are, and go about their work with wonderful skill and judgment. But, then, it is difficult to induce them cordially to do any thing new; or any old thing in a new way; and the abler they are as workmen, the more untractable they are, and the more difficult to be persuaded, that any one knows any thing, relating to farming affairs, better than they do. It was this difficulty that made me resort to the employment of young women in the most important part of my larming, the providing of immense quantities of catcome cankered, and will lead to the producing of the food. But, I do not find this difficulty here, where no workmen are obstinate, and where, too, all one's neighbours rejoice at ones success, which is by no means the case amongst the farmers in it ngland.

> Having now given instructions relative to the business of transplanting of the Ruta Baga; let as see, whether it be not preferable to either the ridge-sowing method, or to the broad-cast method.

In the first place, when the seed is sown on the ground where the plants are to come to perfection, the ground must be prepared early in June at the latest; but, in the transplanting methad, this work may be put off, if need be until early in August. However, the best time for transplanting is about the 26th July, and this gives a month for preparation of land more than is allowed in the sawing methods. This, of itself is a great matter; but, there are others of far greater importance.

This transplanted crop may follow another crop on the same land. Early cabbages will leave meconvince every reader of the folly of waiting tit be imagined, that these young women were and be away, early peas will be ripe and off

nay, even wheat, and all grain, except buckwheat, may be succeeded by Ruta Baga transplanted, I had crops to succeed Potatoes, Kidney Beans, White Peas, Onions, and even Indian Corn, gathered to eat green, and, the reader will please to bear in mind, that I did not sow, or plant, any of my first crops, just mentioned, until the month of June. What might a man do, then, who is in a state to begin with his first crops as soon as he pleases! Who has his land all in order, and his manure ready to be

Another great advantage of the transplanting method is, that it saves almost the whole of the after culture. There is no hoeing; no thinning of the plants; and not more than one ploughing between the ridges. This is a great consideration, and should always be thought of, when we are talking of the trouble of transplanting. The turnips which I have before had occasion to mention, had no after culture of any sort; for they soon spread the ground over with their leaves; and, indeed, after July, very few weeds made their appearance The season for their coming up is passed; and, as every farmer well knows, if there be no weeds up at the end of July, very few will come that summer.

Another advantage of the transplanting method is, that you are sure that you have your right number of plants, and those regularly pla- same number of previous ploughings, and at the ced For, in spite of all you can do in sowing, there same seasons of the year, I would spread the mamay, in some places, be destroyed in their infant I would, if I bad only one pair of oxen, plough state. They may, now and then, be cut off with about half an acre, harrow the ground, sow it the hoe. The best plants may sometimes be cut unmediately, and roll it with a light roller, which once well done, the crop is certain, and all cares under any sun, furnish the moisture sufficient

people. To neglect any part of the business is, removes all the million of cares and vexations of the winter and spring months, when bleatings everlasting din the farmer almost out of his senses, and in ke him ready to knock the brains out of the clamprous flock, when he ought to feel pleasure in the filling of their bellies.

copping the ground with Ruta Baga, I will, as I have already proposed, speak about the prepa-

of wheat the preceding year, and of course, to Seeds buried below their proper depth, do not be in good heart as we call it in England.

very deep, and the ridges well laid up. In this sit- many instances, with more than one half of the uation it would, by the successive trosts and seed that is sown. But, if seeds be buried so thaws be shaken and broken as fine as powder by deep, that they do not even vegetate, then they back; always ploughing deep. A crop of weeds only cause, of our wondering to see weeds come when they should be smothered by another turn- for many years. At every digging, or every ing back. Then, about the third week in June, I ploughing, more or less of the seeds, that have would carry in my manure, and fling it along in formerly been buried, come up near the surface; low the turning back for the sowing, as has been ces in proof of this fact; but the particular inbefore directed Now, here are four ploughings, stance, on which I found the positiveness of my which I send to market. What is the cost then? fine broken state. Besides, every previous ploughing especially deep ploughing, is equal to a seventh part of an ordinary coat of manure.

In the broad-cast method, I would give the will be deficiencies and irregularities. The seed nure over the ground just before I ploughed it for may not come up in some places. The plants sowing. Then, when I ploughed for the sowing, up and the inferior plants left to grow And, in a little horse might draw in order to press the these injurious consequences can arise in the do it in England. The roller does all very comtransplanting method. Here, when the work is pletely, and the sowing upon the fresh earth will once sowed on ridges, with a BENNET's drill and increasing city of New York! In taking my leave of this part of my treatise, neither harrowed nor rolled, nor used any means I must observe, that it is useless, and, indeed un- at all of covering the seed; and yet I had plenty just, for any man to expect success, unless he of plants and a very fine crop of turnips. I sowattend to the thing himself, at least until he has ed a piece of white turnips, broad cast at Hyde made the matter perfectly familiar to his work- Park last summer, on the eleventh of August, which did very well, and though neither harrowed in fact, to neglect the whole; just as much as nor rolled after being sown. But in both these neglecting to put up one of the sides of a build-cases, there came rain directly after the sowing, ing, is to neglect the whole building. Were it a which battered down the seeds; and which rain, matter of trifling moment, personal attention indeed, it was which prevented the rolling; for succeed some other good crop, as mentioned bemight be dispensed with; but, as I shall, I think, that cannot take place when the ground is wet; clearly show, this is a matter of very great mo- because, then, the earth will adhere to the rollment to every farmer. The object is, not merely er, which will go on growing in size like a rollto get roots, but to get them of a large size; for, ing snow ball. To harrow after the sowing, is had very fine Ruta Baga, some weig ing six as I shall show, there, is an amazing difference sure to do mischief. We always bury seeds too in this. And, large cooks are not to be gotten deep; and in the operation of harrowing, more without care, which by the by, costs nothing. than half the seeds of turnips must be destroyed Besides, the care best aved in obtaining this crop, or rendered useless. If a seed lies beyond the knows, is not an early sort. They were planted proper depth, it will either remain in a quiescent state, until some movement of the earth bring it up to the distance from the surface, which will make it vegetate, or, it will vegetate, and come up later than the rest of the plants. It will be feebler also; and it will never be

shall suppose the land to have borne a good crop | seed, though it may be here rather out of place. while they were receiving not one cheering visit

the surface.

come up; but, many of them are near enough to I would plough this ground in the fall into rid- the surface, sometimes to regetate, without comges four fect asunder. The ploughing should be ing up; and then they die. This is the case, in March or April. In April, it should be turned do not die; and this is one cause, though not the would be well set upon it by the first of June, up, where we are sure that no seeds have fallen the trenches or furrows. After this I would fol- and then they vegetate I have seen many instan-And what is the cost of these ploughings? My assertion, was one of Parsnip seed. It is a very man a black man, a native of this island, ploughs deficate seed. It will, if beat out, keep only one with his pair of oxen, and no driver, an acre and year. I had a row of fine seed parsnips in my a half a day, and his oxen keep their flesh ex garden, many of the seeds of which fell in the tremely well upon the refuse of the Ruta Baga gathering. The ground was dog in the fall, and, when I saw it full of parsnips in the spring, I And, what a fine state the ground is thus brought only regarded this as a proof, that parsnips might into! A very different thing indeed it is to plough be sown in the fall, though I have since proved, hard ground from what it is to plough ground in this that this is a very bad practice. The ground was dug again, and again, for several successive years, and there was always a crop of parsnips without a grain of seed ever having been sown on it. But, lest any one should take it into his head that this is a most delightful way of saving the trouble of sowing, I ought to state, that the Parsnips coming thus at random, gave me a great deal more labor than the same crop would have given me in the regular way of sowing Besides, the full is not the time to sow, as my big and white Parsnips, now selling in the New-York market, may clearly show; seeing that they were the broad-cast method, the irregularity and uncertainty must be obvious to every one. None of need he no harrowing after sowing. We never the Western Countries in search of rich land, while thousands of acres of such land as I occuny are lying waste in Long Island, within three hours' drive of the all-consuming and incessantly

I have now spoken of the preparation of the and for the reception of seeds. As to the preparation io the case of transplantation, it might be just the same as for the sowing on ridges. But, there might, in this case, be one more previous ploughing, always taking care to plough in dry weather, which is an observation I ought to have ınade before

But why should not the plants, in this case, fore? I sowed some early peas (brought from England) on the 2d of June, I harvested them, quite ripe and hard, on the 3 st of July; and I pounds each, after the peas. How little is known of the powers of this soil and climate! My Potatoes were of the kidney sort, which, as every one on the 2d of June; and they were succeeded by a most abundant crop of Ruta Baga. And, the minure for the peas and potatoes served for the Ruta Baga also In surveying my crops and feeling grateful to the kind earth and the glorious sun that produce these, to me, most delightful Having new done with the different modes of equal to a plant, which has come from a seed near objects, how often have I turned, with an aching heart, towards the ill treated Englishmen, shut Before I proceed further, it may not be amiss up in dungeons by remerseless tyrants, while not ration of the had generally; and in doing this, I to say something more respecting the burying of a word had been uttered in their defence by, and who had been the great immediate cause of their ed, when he was killed, twenty-seven score, acincarceration!

used in general, it may be the same as for a sow. This breed has been fashioned by Mr. Woods, ing of rye, or of wheat. I should prefer ashes; of Woodmancot, in Sussex, who has been, I bebut my large crops in England were on yard lieve, more than twenty years about it. I thought dung, first thrown into a heap, and afterwards it perfection itself; but, I was obliged to confess, turned once or twice in the usual manner, as that Mr. Gauntlett's surpassed it. practised in England. At Hyde Park I had no- Of the earth burning, I will give an account thing but rakings up about the yard, barn, &c. in my next part of this work. Nothing is easier as described before What I should do, and what of performance; and the materials are every I shall do this year, is, to make ashes out of dirt where to be found. or earth, of any sort, not very stony. Nothing is I think, that I have now pretty clearly given so easy as this, especially in this fine climate. I an account of the modes of sowing and planting see people go with their wagons five miles for and cultivating the Ruta Baga, and of the pre-Soper's ashes; that is to say, spent ashes, which paration of the land. It remains for me to speak they purchase at the landing place, (for they of the time and manner of harvesting, the quancome to the island in vessels) at the rate of about tity of the crop, and of the uses of, and the mode five dollars for forty bushels. Add the expense of applying the crop. of land carriage, and the forty bushels do not cost less than ten dollars. I am of opinion, that by the burning of earth, as much manure may be got upon the land for half a dollar I made an experiment last summer, which convinces me, that, if the spent ashes be received as a gift at three miles distance of land-carriage, they are not a gift worth accepting of. But, this experiment was upon a small scale; and, therefore, I will not now speak positively on the subject

I am now preparing to make a perfect trial of these ashes. I have just ploughed up a piece of ground, in which, a few years ago, Indian corn was planted, and produced, as I am assured, only stalks; and those not more than two feet high. The ground has, every year since, borne a crop those demonstrations which are necessary to reof weeds, rough grass, and briers, or brambles. move prejudice and to convince the judgment. The piece is about ten acres. I intend to have Indian corn in it; and my manners shall be made to those systems and improvements which the on the spot, and consist of nothing but bu nt present condition of agriculture obviously apearth. If I have a decent crop of indian corn on pears to require, it was essential to bring them this land, so manured, it will, I think, puzzle my

going five miles for spent ashes

the year 1815, burnt ashes, in one heap to the ting yourselves in your own counties, and comamount of about two hundred English cart loads, paring the results of your experience and obeach load holding about forty bushels. I should servations, you would be enabled to communot suppose, that the hurning cost me, more than nicate important information to the general fire dollars; and there they were upon the spot, society and that, receiving by its organs the in the field, where they were used. As to their testimony of useful experiments and discoveeffect, I used them for transplanted Ruta Baga and Mangle Wurzle, and they produced full as great an effect as the yard dung used in the same land. This process of burning earth into ashes, without suffering the smoke to escape, during any part of the process, is a discovery of Irish origin. It was pointed out to me by Mr. WILLIAM GAUNTLETT, of Winchester, late a commissionary with the army in Spain. To this geatleman I also owe, England owes, and I hope it; and if they should think it an advisable mean geotleman I also owe, England owes, and I hope it; and if they should think it an advisable mea-America will owe, the best sort of hogs, that, I sure, they were authorised to propose corresbelieve are in the world. I was wholly unac-ponding alterations in the constitution of the quanted with Mr Gauntlett, until the summer general society, and also such a plan for the forof 1815, when, happening to pass by my farm, he mation of county-societies as should be deemed saw my hogs, cows, &c and when he came to my proper to be recommended to your attention. house, he called, and told me that, he had observed, that I wanted only a good sort of hogs, referred to their into their serious consideration; to make my stock complete. I thought, that i almost a meeting for the general society, held at ready had the finest in England; and I certainly had a very fine breed, the father of which, with port was presented by the committee, declaring objects of the association. Agriculture is un-

or comforting word, from Sir Francis Burdett, legs not more than about six inches long, weighcording to our Hampshire mode of stating log As to the quantity and sort of manure to be meat weight; or five hundred and forty pounds.

(TO BE CONTINUED.)

## To Farmers of the state of Maryland.

FRIENDS AND FELLOW-CITIZENS-At a meeting of the Maryland Agricultural pociety at Easton, in January last, the adequacy of its constitution to accomplish the important objects proposed by it, was questioned by many of its members They were apprehensive that its operations would be too much confined to the neighbourhoods of its sessions, and that a very considerable number of those who are deeply interested in the profitable cultivation of the soil, would be excluded from They thought that to give an extensive effect nearer to your farms, and to afford an opporgood neighbours to give a good reason for their tunity to every land holder to partake in the promotion as well as in the knowledge of Whether I succeed or not, I will give an account of my experiment. This I know, that I, in be advanced They believed, that by associa-

This committee, accordingly, took the & bject

their opinion in favor of county-societies, and of the usefulness of uniting their efforts with those of the general societies, and proposing for this purpose, several amendments to its constitution, and accompanying these with a form of association which they considered proper to be recommended to the citizens of the respective counties of the state. This report was read and discussed; and has obtained the sanction of the members who were present at the meeting; but in consideration of the material changes which it proposes to effect in the constitution of the General society, as originally established, it was thought respect at to defer the ultimate decision upon it unto the meeting at Baltimore, on the first Wednesday of June: And to enable, not only the Members of the Society, but the Farmers of the several counties, to examine the nature of the scheme, and to form their judgment deliberately upon it, a committee was appointed to cause the report to be published and disseminated, and to call the attention of the people, whom it particularly concerns, to its provisions, in a suitable address.

In performing this office, it cannot be necessary to inform you, that the state of Agriculture among us, is in general, extremely defective. Every owner, every tenant, is convinced that by a different system, and by better culture, his lands would be more productive and his labour more successful, and, consequently, that his welfare and contentment would be enhanced in a higher degree. But it is of great importance to convince you, that means are believed to exist, by which your fields may be fertilized and rendered profitable, and by which, therefore, the value of our estates, and the comforts of our lives, may be greatly increased; and that these means, in a greater or smaller proportion, are in your own power, though too little known. The thing desired is, to ascertain where these means are deposited, and to understand in what manner to apply them Communication with each other has frequently contributed to the discovery of valuable facts, and afforded to many hearers the serviceable experience of a few ingenious men; and new ideas received from a single individual will often excite reflections which may lead to useful inventions. Communications, even in a transcient manner, and in occasional interviews, have sometimes been the cause of fortunate experiments and beneficial changes; but associations, professedly formed for the advancement of any science must necessarily yield much greater and more permanent effects; and if that science be one in the promotion of which, every member will believe the best of his interest, and the sources of his independence to be profoundly involved, he will feel himself drawn to it by the strongest considerations. The indulgence of curiosity, the desire of distinction, and the gratification of meeting his associates upon equal terms, though these are all commendable inducements, will be the weakest motives for his attention; the increase of his wealth, the greater ability of edccating his children, the comforts and advancement of his family, and, if that science concern the improvement of his country, the sentiment of patriotism will inspire him with ardor; and the resources of his mind, and he exertious of his labour, will all be employed in perfecting the

profession, little study appears to be afforded to a week to a month earlier, to the southward, and it; and yet there is none which merits more Skill in this pursuit, may, by slow, but sure de- states. A general remark is that musk and wagrees, convert a barren held into a fertile plain, for mellons, cucumbers, pumpkins, squashes. and still more augment the value of the finest with more liberal hands; he who cultivates with | culture an earlier time was answer. knowledge and understanding, reaps, it is true, the first advantages of agriculture; but he is not imclons, prepare a piece of tich, souly ground, the only individual who enjoys them; they are well exposed to the suo, manure it, and give it extended to the uses of the whole community. She supplies the inhabitants with food and rai- feet every way; at the angle of every square ment; she satisfies all their necessities and ed- dig a hole twelve inches deep, and eighteen ministers to all their luxuries; commerce, manu. factures, all arts and trades, all callings and pro- of old hot-bed dung, or very rotten manure, put fessions, are dependent upon her productions : the body of the people are interested in supporting her cause, for they are all partakers of her the remainder of the earth over the mixture, so bounties

You, fellow citizens whom we address, are more especially engaged in this support; and we cannot donbt your willingness to adopt any expedient which may tend to amplify important results. It is believed, that the formation of societies in your respective counties, will bring forth the most favourable consequences among yourselves, and that, by mutually communicating and receiving the fruits of your experience, and the improvements of your systems, through the medium of the general society, composed of members from among you all, the advantages which may flow from the union of talents and exertions, will be realized in every district of the country. It is under this expectation, that the amendments to the present constitution of the general society, have been proposed, and the plan of a government for an agricultural society, in the respective counties, recommended. They are published with this address, and submitted to your examination. If approved of, they can not be carried into operation at too early a pe riod The spirit of agriculture has to long langvished; let it be revived and fairly encouraged: it will stimulate the industry and faculties of every individual, and ameliorate his situation in life. It will multiply the objects of labour, and afford beneficial employment to many who are losing the inducements to remain with us. It will improve and adorn the country, and increase its population; and, by these united effects the wealth and character of the state will entitle her to an agreeable comparison with her sisters.

NS HAMMOND, EDWD. LLOYD, TENCH TILGHMAN, ROBERT MOORE, EDWARD N. HAMBLETON. Easton, 30th March, 1819

From the Practical American Gardener.

## For the month of May.

Sowing Melons and Cucumbers in the open ground.

From the first to the tenth of this month, will be a suitable time, to plant a general crop of

about the middle of the month, in the eastern gourds, and all their varieties, may be sown at plantations No science spreads her blessings the time of planting Indian corn; but for garden

For the varieties of the mosk and cantalope a good digging, mark it out into squares six over, into which put seven or eight inches deep thereon about four inches of earth, and mix the dang and earth well with the spade, then drw a to form a round hill about a toot broad at top.

When your hills are all prepared as above, plant in each, towards the centre, eight or nine grains of melon or enumber seed, each at some distance from the other, for if planted near each other, the melons will be injured, the seeds to be set about two inches from one another, and covered about half an inch deep.

When the plants are up, they may be pruned or not, at pleasure As the flies will be very troublesome they must be killed as much as possible, three times a day, and where they have destroyed any of the plants, fresh seed may be put in ground in their places.

Squashes. Squashes of every kind, many be cultivated as cucumbers, and sown at the same time, at the distance of eight or nine feet every way.

Water Melons. In order to have water melons in perfection, fix upon a piece of very light, rich, sandy soil : manage it in every respect, as directed for cucumbers and melons; let the hills be distant nine or ten feet every way.

Pumpkins and Gourds. Pumpkins will require to be ten feet distance from hill to hill, two or three plants in each; they will grow freely and in any dry and tolerable rich ground, and to be sown, at the time melons and cucumbers are, in the open ground, without this. and Fept free from weeds.

The ornamental kinds may be sown, where they can be trained to trellises.

Where melons, cucumbers, squashes, pumpkins, &c. are to be cultivated on a large and exbetween the plants, until they begin to run, when the hoe must be used

#### Sweet Pototoes.

The sweet potatoe requires a very light, san dy, and tolerable rich soil, to bring it to perfection. The time to plant, in the middle states. is from the first to the tenth of May. ground being well pulverised by ploughing and harrowing, &c. is afterwards laid out in squares of four or five feet each, and at the intersections of the furrows, hills are made, in the manner directed for cusumbers, &c. into each of these one or two good sets are planted, and covered about an inch and a half deep; as they advance in April, should be planted out into beds of rich

doubtedly that science: though it is a common [melous and cucumbers in the open ground; from growth, the hills are ends god, by cross ploughing the ground; harrow it with a very narrow barrow, and then round the hills with a hoe.-Constantly keep them clean from weeds, and the frequent enlargement of the hills will increase the size and number of the roots. In gardens, the work may be performed with a hoe.

Indian Corn.

Procure some of the early corn, as directed in page 51: it may now be planted in the open ground and treated in the manner of common crops, planting it at the distance of three feet every way This is designed solely for gardens, at this sort does not grow more than six feet in height.

Early Cauliflowers.

Early cauliflower plants, as they advance in growth, should have the earth drawn up about their stems, and in dry weather, occasionally wa-

Towards the latter end of the month, the plants will begin to show their flowers, when they should frequently be looked over, and as they advance in flower, let some of the leaves be broken down over them, to protect them from the sun and wet, as also to preserve them in their natural colour, firmness and beauty.

Planting Carliflowers. The plants from the late spring sowings should now be planted out. In October, you may expect fine heads from these.

Sowing Cauliflower Seed.

You may now sow cauliflower seed for a late crop. The plants from this sowing, which do not produce heads before November, may be then taken up, and managed as directed in that month by which means they will continue to produce fioe flower- all winter.

Cabbages.

Draw earth about the stem of the early cabbages. The earliest, towards the middle or latter part of this month, will begin to form their heads; when they may be greatly forwarded by tying their leaves together, with bass, or shreds of Russian mats; gather the leaves up regularly, but do not bind them too close; only treat a few of the earliest of them in this manner, the remainder will come on and be better

Continue to plant out your spring cabbage plants, for antumn and winter. Plant, also, at this time, a full crop of red pickling cabbage and

Let all be planted out, if possible, in moist or tensive scale, the ground may be prepared with a cloudy weather, and immediately after, give plough and afterwards ploughed and harrowed each a little water, unless the ground be fully saturated

> Sow now, in open borders, some early York, sugar loaf, &c. for summer and autumn use; likewise savoys, large drum heads, flat Dutch, &c. and red pickling cabbage, for autumn and winter. Transplant your seedlings, watering them immediately, and shade them for a few days.

#### Borecole.

You may now sow a principal crop of green and red curled Borecole, for autumn, winter, and spring use.

Towards the end of the month, those sown in

distance every way, and kept clean from weeds have succeeded in this, (as I confidently believe Those intended for winter use, should never be I have I have no doubt but a generous and enplanted in a rich soil, as they would not be lightened public will patronise my efforts, reable to bear the frost so well, as if growing in gardless of the attacks of interested competigravelly soil (TO BE COVIENUED.)

### MISCELLANY.

### IMPROVED PATENT FAN.

To the Editor of the American Farmer.

Sir-I had the pleasure, on my arrival in town this morning, of receiving your note, requesting a description of my improved Fan, for your agricultural paper, and hasten to comply

with the same.

" The Fan is double blasted; after the wheat passes through the opper blast, and upper riddle, (nearly as in the old method it descends again into a second ruddle and second blast, unconnected with the first; it then runs into the siftso the force of air "

for coarser ones, which go with the Fans .- I tion seemed to rise on the wings of the eagle. Flaxseed and cloverseed are cleaned the same as wheat.

the medium of the newspapers, is the result of the profit which formerly came to our coffers. my labours; and I flatter myself that it will be and on that account, and on account of the large, milling interests.

The gentlemen, members of the Agricultural Society of Maryland, are respectfully lavited to examine and prove my Fan, and their patronage is solicited in proportion to its utility.

I am, sir, very respectfully, your obed't serv't, THOMAS WILSON.

Orders sent to the patentee, Gunpowder, Baltimore county, or left at No. 6, Market-st. (past paid) will be d by attended to.

FOR THE AMERICAN FARMER.

### DOMESTIC MANUFACTURES.

Ab 2

Many circumstances, which in times past may ing range, through which it passes into a fine have induced some persons honestly to question sieve, which lets all small seeds, &c. out under the expediency of encouraging manufactures in neath the clean wheat runs out in front, while the U. States, no longer exist. During a great the sifting-range separates the garlic and every portion of the time that elapsed between the thing larger than wheat, and throws it out at one year (783, in which our political independence side of the Fan. The two riddles, sifting range, was established, and the year 1815, in which the and sieve are kept in motion by means of a crank fertile plains of Waterloo blushed at the shaine on the end of the axletree, and the whole ma- ful slaughter of men, the agricultural production a Mr. Casey, from abroad, I was happy to see, chinery put in motion by simply turning the of our country, in any amount that could be exbandle of the Fan, which is much easier than any ported, found a good market in Europe; and our other now in use. For large establishments the enterprising merchants had many tons of shipdimensions of the Fan can be increased, and al- ping employed in what was called the foreign carrying trade; transporting goods from In the above description I have to apologise one European port to another, at a great profit. for the want of technical accuracy; not having Our agricultural and commercial labour was exmy patent with me in town, it is not so perfect- traordinary, far above the quantity proportionly described as I could wish; but those who ate to the country in a peaceful state of the world. may want Fans of this description, will, no-It supplied the deficiency of the same kind of doubt, be better satisfied by seeing one opera labor abroad, where millions were devoted to the art of war; where the ploughshare and the prun-I beg leave to add, that, from repeated experi-ing hook were beaten into the sward; and where ments made with the small Fan, now exhibited cultivators, merchants, sailors, and all classes of as a model, on Bowley's wharf, thirty bushels of people, were required to act the part of soldiers. wheat can be cleaned from the chaff every hour, Under such circumstances, our income was conand the power of the machine can be augmented sequently extraordinary; the balance of trade to suit the wish of purchasers. in the cleaning of was greatly in our favor; our planters, armers, barley, oats, rye, &c. the sifting range used for and merchants grew rich; our cities and towns wheat is drawn out, and the wheat riddle changed flourished and increased rapidly; and the na-

But those golden days are gone; and there is little prospect of their returning. Bonaparte Brought up a practical farmer, I have had to the son of Mars, is on the rock of St Helena, lament, in common with others, the difficulty of where he is likely to be kept. Instead of the separating garlic and other injurious seeds from arts of war, Europeans may now learn and pracwheat, and the incompetency of the machines tice the arts of peace. Instead of paying Amewhich I had an opportunity of trying, to effect rican farmers and merchants enormous prices for that object. This led me to reflection and ex- the necessaries of life, they will raise an abunpe iment, to find a remedy, and the Improved dance for themselves. Every nation will claim Patent Fan, which a few days ago I offered to and exercise its rightful privilege and reap the the notice of the farmers and millers, through consequent advantage. Thus they will derive

nu important acquisition to the agricultural and luxurious desires, which commercial prospecity bas fostered, our consumption has become very The mere act of "chaffing" can be performed great. The balance of trade is against us; our by winnowing, the mode practised by our an commerce is curtailed; the product of our labor cestors long before the invention of Fans, and is proportionably less; and as the prices of our still in use by the great majority of the farmers to bacco, cotton, flour, &c. are coming down, it for himself, before he ventured to instruct the of every country, but the separation of g rie will continue to diminish. We have nothing to prove of this country. and other noxious seeds from wheat, at the time pay for our importations. All the specie is gone,

sandy soil, as directed for cabbages, at three feat of chaffing, was the object I had in view; if I for going from the country, and we have no power to retain it. If unusual efforts, and ruinous sacrifices be made to fill the empty vaults of some of our most respectable banks; the advantages can he but momentary The money is received with one hand and paid out with the other. The western goles quickly waft it over the waters and "far away." Paper money is a little more beautiful, but not much more useful than the rags of which it is made, unless it be made a legal tender, or unless there be specie enough deposited to keep it in circulation. Business is dull: trade is stagnated; merchants are failing; and farmers are not thriving. Our navy and army are established and must be supported, and all our civil officers must be paid. Under these circumstances, who cannot see, who will not acknowledge the utility and the necessity of some productive labour to relieve our embarrassments? What is the desideratum? Our agricultural and commercial products are insufficient; we have no mines of siver and gold. The only means of relief and comfort, in addition to a moderation of our extravagance, is the exercise of manufacturing powers. OP FICE AMICUS.

TO THE EDITOR OF THE AMERICAN FARMER.

SIR,-The establishment of a Seed Shop, by and ready to encourage in my small way. I thought it however a little singular, that Mr. Casey should propose to publish a Gardner's Hire, for a soil and climate to which he was an entire stranger: and, in looking at the book, can find a solution of that singularity, only in the supposition that Mr. Casey thinks he has come to seek his fortune in a community, made up of the grossest ignorance and credulity, and who were ready to dwell on any thing foreign.

The price of '.r. Casey's book, as well as its content, are truly congenial with such a supposition, one dollar for twenty-eight pages of loose print!

It consists of two parts, a Rotation Table and a Diary.

The Table is as truly ridiculous, as it is original; so much so, as to secure it against the possibility of doing mischief in any country. Three successive grain crops to begin-the modest land butcher never dreamt of more than two) followed by grass—Hay, perhaps he meant—hay and grass. Could you soil 1-5 your farm? or would you pasture your grass one year and expect to make hay of it the next? The Table is in fact, a complete anomaly, setting totally at defiance every principle of modern science, and excluding every product which all other writers are labouring to introduce, viz shaded crops.

The Diary or Callender, is fully of a piece with the table; the merest trash; full of errors sickening to took over. It must suffice with regard to it, to remark the modesty of an author, just arrived in a country, to undertake to instruct its citizens in the periods of its vegetation : and the treatment adapted to it! Would it not have been more comely for Mr. Casey, to have noted and compared them with those of his own co ntry, before he assumed the attitude of the professor; to have learnt, at least, a little

Such presumption needs the restraint, if not

the chastisement of the press, since the price, | character and circumstances of the work, strongly indicate a disposition to make money by practicing on the public, under, I presume, the self-TOE TO TOE. dubbed title of Professor.

### National Character

Elevated or depressed by the measures of partieular States -- Improvements going on in the State of New York-Public spirit of the State of Virginia-Agricultural resources of New-

York and of England, compared.

Enlightened Patriotism teaches us to consider cach state in the republie, as nearly and equally related to every other; and that whatever may be their peculiar differences in climate, soil, productions, or courses of trade, yet all serve to constitute one kindred family, united by equal rights. Pushing the analogy, it must be allow ed, that as family character, depends on the deportment of each member; as its reputation may be elevated by the genius and honor of one, and depressed by the ignorance and vice of another, so a nation's reputation, in the eye of the foreigner, may be glorified or degraded by the policy and the principles which characterise the administrations of the different states.

Be it the duty, therefore, of each state administration, to bear in mind the extent of its re sponsibility to the nation at large; each one has in its keeping a portion of that renown which is common property-each one has received its talent and must render its account. Without intending to make invidious comparisons, we are bound to acknowledge, that, as Americans, we owe our special acknowledgements to the enterprising state of New-York, whose magnificent schemes of internal improvement, have already attracted upon our youthful country, the eyes and the admiration of the old world.

Public works are there progressing on a scale which has been hitherto considered beyond the resources of the oldest nations of Europe. The Hudson, in the east, is extending her arm to shake hands with lake Huron, in the west; and the benefits which await the agricultural and the commercial interests, throughout this whole hie of internal communication, puts all calculation at defiance. What then do we not owe to the genius which has conceived, and the patriotism which is found adequate to the execution of such

spleadid undertakings?

Let those in whose bosoms there yet lingers any fear of the animosity or the power of Europe, compare the reso rees and capacity of a single link in our chain of confederacy, with the power of England, one of the oldest and most renowned members of the "Holy league," of Europe. If one Hercules in his cradle can thus measure strength with the Lion in his mahood, what have twenty to apprehend? The items of this comparison we derive from an elo quent pamphlet, published in Now-York, on the " Expediency of establishing a board of Agriculture," for which laudable purpose the legislature of that state has since appropriated a donation

Virginia, the "ancient dominion," following the example of New-York, has begun the work of internal improvement in a spirit of liberality and intelligence which becomes her high eliming to organious s wealth, Power, and Resources of racter. May the glorious mania spread through-the British Empire.

out our country: thus shall we soon become from more accurate sources, and more correct. really and truty independent.

agricultural enterprize and greatness, we shall of \$385,455,213, if we take the calculations of not venture to say; but let us for a moment in the above author as a data. England and Iredulge in comparison, the only method to ascer-land together, produce an annual wealth from the tain the magnitude of objects. Let us cast our cultivation of the soil of the amount of \$961.136. eyes over the state of New-York, and then take [54]. And yet ringland did little or nothing for her the map of England in one hand and the picture agriculture and rural economy until the time of of her resources in the other and ponder on the Queen Elizabeth; and in fact, never brought this extent of her agricultural riches England is branch of industry to any general perfection, until a country possessing less natural advantages the establishment of her BOARD OF AGRICULthan our own state. Including Wales, Great TURE. We are not putting the present agricultur-Britain contains 49,000 square miles, making at resources of the state of New-York by the side not far from 31,000,000 of acres. New-York of those of great-Britain. We are only suggesting, contains 46,000 square miles, making over by way of comparison, what New-York can do at a 29,000,000 of acres England has more waste future period, and the necessity of commencing her lands than the state of New York. Her moun-career of improvement on a great scale, at the pretains are sterile and barren; her bogs, heaths, and sent moment. We must recollect that while the chalky lands, as well as her large tracts of loose population of England does not double once in 100 spoogy ground, are not known as characteristics years, ours doubtless once in 20 years. But a few m our soil Her climate possesses few or no ad- years more, & we shall have as much effective torce tion congenial to our soil, will maintain a com- now has, and the fruits of our labour will not be desubsist as well here as in Great Britain.\* We go to enrich a great and enterprising community.
must, also recollect, that the parks, commons, rall considerabley short of two millions in England and Wales T Yet under all these circum stances, what has England done as an agricultural nation?

An eminent English writer, equally distinguished for his candour and abilities, has esti- day the 9th instant. moted that the wealth which is annually created by the cultivation of the soil of Great Britain nal Company, 50,000 dollars. and Ireland, amounts to no less than 1216,017,625. He gives Ireland two-fifths of this amount, which, 46, 00 dollars. when deducted from the whole estimate, leaves an annual creation of wealth from the soil mond Dock. of England and Wates alone, the enormous amount of 1130,000,574 or \$575,580,328.-Here then is SIX HUNDRED MILLIUNS OF DOLLARS, annually wrong from the British soil, possessing interior attributes and proper ties to the soil of New-York! The able Book entitled "Britain Independent of commerce," estimates the annual creation of property in Ling land, by means of agriculture, to be 1120,000,000 but the estimates of Mr. Colquiouu are obtained

\* The whole number of sheep this state was estimated at 1,410,044, four or fiv. years since. Neat cat-le, 853,298 Horses, 527,570—aggregriate 2, 850,952. The number now is much larger.—Spafford's Gaz. p. 51.

† From the result of the population act, it appears, that of the 8,300,000 persons which England then contained, only 1,5-4,000 were chiefly employed in agriculture; so that of the 12, 00,000 which Great Britam, including . ales, is supposed to contain now, there cannot be imputed to the more than one sixth part employed in cultivating the earth .- Vide Britain independent of Commerce

Even Ireland gives an annual creation of wealth "What limits are, hereafter, to bound our from the cultivation of her soil to the amount vantages over our own. The articles of consump- employed in the cultivation of our lands as Eng and petition with hers, and our fruit is lar better. voured by tax gatherers-excise officers-a profit-All kinds of domestic animals, to whose growth gate idle nobility—armies—subsides—sinecurist— England assigns an important part of her wealth, placemen—servants—and paupers: but they will and pleasure grounds, take up a large territory we cannot realize the resources of our country or in England; that her tenures are burdensome, of our state. They unfold uuseen, and astomsh us, her taxes monstrous, her exports shaekled, her at times, with their wonderl. I developement. The cultivators oppressed, and no small portion of tonnage of New York is now far greater than was her population composed of nobility, gentlemen, that of ringland at the time of her defeating the professional men, soldiers, placemen, suecurists, Spanish armada, when Spain was mistress of spies, servants, and paupers From the most the ocean-and even greater than that of ungland rational calculations, the cultivators of the soil one century ago. If a state would be great, she must elevate her thoughts to the standard of greatness, and let her efforts comport with her views and conceptions

The Virginia Legislature adjourned on Satur-

They have loaned to the Dismal Swamp Ca-

The wift Run Gap Turnpike Company,

They have subscribed \$30,000 to the Rich-

They have appropriated \$23,000 to the finishing of the public square and Capitol.

they have, besides contributed to several turopikes, says the Inquirer, taken some necessary preliminary steps towards the Western Navigation-a road from the Appomattox to the Roanoke-In fact, it is impossible to calculate the patience with which they have encountered the labour of levising the laws, or the public works which they have assisted, without a deep sentiment of gratitude and respect.

### BALTIMORE:

FRIDAY, APRIL 23, 1819.

#### THE BELT SAW.

Seeing a description of the Belt Saw, going the rounds of the newspapers, said to have been " newly invented" by Mr. Adam Stewart, we thought it might serve the cause of truth and

veries and new inventions) made in 1815. It slabs to the inch. will be seen, that the credit of the discovery is The only saw that I have seen in motion was ryland. been received. He says, however, that he lodged per minute. This ingenious machine appeared Boil two ounces of salt petre in a quart of wahis specification in the patent office, prior to to me perfectly playted to its end (Extract ter, and put two or more spoonsfull, according the year 1815, and thinks, that the idea was car-from the British Library, March, 1815.) ried over to France by a French officer, to whom he shewed his invention, in a garret in Loudon, We have great pleasure in laying before our taste of turnips, but it will not be effected if before his coming to this country. The only readers, the Address from the Agricultural So even once neglected. This has been proved by thing at stake is the credit of the discovery ciety of Jaryland, at Easton. The zeal and in-twenty year's experience, and if it does not suc-The question rests between Mr. Stewart, an En-telligence it displays, is the best proof of that ceed, the farmers may rest assured that the fault glish, and Mons. Touroude, a French gentle-patriotic feeling and pride, which being once arises from the neglect of the dairy maid. man. Our office, is impartiality, our object excited, will soon place degraded Maryland on

made to cut the wood, which is fixed upon a car-tion whatever has been made from the Baltimore

riage in the ordinary manner

thickness of the wood to be cut, causes that to may have casually reached them through the the friction

as movers are made to turn. It performs, ac-above all, the officers should enter into the bucording to M. Touroude, more work than an or-siness heartily and zealously. dinary saw which cuts only in descending, and ought not to be confounded with the circular saw

called fraises.

letin de la Societe d'Encouragement. Jullet, anticipated. 1815.)

Translated from the same work.

this invention:

The inventor of these new saws is a Frenchman named M. Brunot, a mechanic, established for a long time past in England, and who receives from Parliament an annual pension of 300 pounds much success in the ship yards at Portsmouth

French work, entitled, "Archieves des Decou-the circular saw, moved by a steam machine; bu Editor of the American Furmer, has taken vertes et des Inventions Nouvelles" (of disco-the medium work of these saws is about twelve measures to procure a male and female pig, with

given to Monsieur Touroude. The translation ten feet in diameter and worked with admirable Butter - The following is given as an improwas submitted in manuscript to Mr. Stewart, precision. The wood to be out was placed vertified method of precenting the bitter taste which who promised to furnish us with a statement to cally against it, by means of a cog wheel which butter has at this period of the year, from cattle shew the priority of his invention, but it has not produced a progressive motion of about 3 inches feeding on turnips, cabbages, leaves of trees, &c.

The saw without an end-Of M. Touroupe economy and improvement.

Society, to that at Easton, neither do they know Actual prices of the following commodities at A weight, proportioned to the hardness and any thing of any of its proceedings, except what

A very remarkable thunder gust was experien ced in New York on Friday night last. The ga' M. Touroude has erected on the principle of commenced at about 10 A M and continued un the bell saw, a mill to cut wood after a cer-bil 2 P M. on Saturday; at which time the wind to in measure, which answered advantageously hifting to the northward, brought with it clouds for cotting the thread [les liteaux] which com of almost nocturnal darkness, obliging many to posed the pipe of Archimides' screw [les lityau de light candles for their dinner tables. Then came la vis d'Archimede.] This new mill cannot on the thunder gust, for severity and duration perhaps replace that of the old ones, but it can herer before equalled in that city. One or two be usefully employed, in a number of circum-lessels and several buildings were struck with stances to cut wood, and to give rise to a com-lightning, but the damage done was by no bination of new machines equally useful (Bul-means equal to what might have been rationally Rev. John Pierpoint, lately of this city, was

NEWLY INVENTED SAW-for cutting bridgeport, has raised this year, four pigs, of one the interim, that pulpit has been occupied by litter, which were one year and one day on Mr Sparks, who, it is expected, will be ordain-A traveller gives the following description of when they were killed; and their weights were ed Pastor of the Unitarian church of this city. as follow .-

398 360 394 318 Total, 1470 lbs. wt.

sterling, as a recompense for the invention of of the extraor inary weight of hogs killed in to complain, we think, of our attracting the atdifferent machines which are employed with Boston, at one year old, it is manifest that this tention of the public to a work, that ought realdisposition to rapid growth and to take fat at an ly to be in possession of every Farmer and Gar-He has succeeded in sawing an inch thick learly age, and while growing, arises from some dener in the country.

justice, to make the following trunslation from a ness of mahogany into thirty slabs, by means of peculiarity in the breed. Satisfied of this, the I view to the dissemination of the breed in Ma-

> to the quantity of milk, into a pail, before milkling; if this is done constantly, it will prevent the

a level with her eastern sisters in Agricultural Indelible Ink .- The purple precipitate of Cas . sius, is recommended in the Italian Journals as This machine is principally composed of a In our next, we shall publish their constitu-an Indelible Ink, much superior to that of silver. blade plate of a saw, where the two ends are tion with the alteration proposed. We incline, That part of the linen on which is to be the united; or, rather, it is without end. It embraces however, to the opinion, that the eastern and writing, is first to be moistened with a solution two circular surfaces (plateaux) turning upon western shore societies, would each be more ef-of recently made muriate of tin, and when dry their axis, and placed at a distance greater or ficient, if actiog separately and independently to be written on with a solution of gold, and less, according to the length of the saw of each other. They are too distant to act with then washed in water. The writing, which will These surfaces are mounted upon a frame intrapid and perfect concert, so imperfect, indeed become black, is not at all effected by washing. such a manner, that in giving them a rotary is the understanding and co-operation between and with great difficulty by other agents, and not motion, in the same direction, the saw plate is them, that, as we are told, no official communica- before the cloth is destroyed.

this time in the Baltimore Market.

TOBACCO-has improved within the last advance against the part of the saw which forms newspapers. To be more certain of success, it week-good Patuxent may be fairly quoted at a right line tangent to the two surfaces that it is perhaps best that these associations should 12 and \$4. Fourteen hogsheads are just up embraces, and which causes it to circulate by consist of not too many members in the begin-from Benedict; two of the best sold yesterday ning; that they should reside within a compara- one made by Mr. Cartwright of very supe-The circular saw cuts the wood without in-tively limited circle, so that the interchange of rior quality, for \$11-50-one, second or handterruption, as long as the surfaces, which serve sentiment should be easy and frequent; and, some quality for \$12. Some Eastern shore dark Pobacco is offered at 10 dollars, and such may e quoted at 9-50 to \$10. Two hogsheads of ne yellow wagon Tobacco from Elkridge, sold on Wednesday for \$17, but the average price may be stated from 15 to \$16.

CORN, white yellow, 55 WHEAT, red, \$1 30 white, 1 40 a t 45 BARLEY, none in the Market, CLOVER SEED, scarce, \$14 PEAS, BEANS, white 2 50

Ordained .- On Wednesday, 12th inst the ordained Pastor of the Hollis-street church and society, in Boston. He takes the place of the Cambridgeport Pigs -Mr Brigham, of Cam-Rev. Mr Holley, removed to Kentucky. During

It will be seen, that we have made a pretty free use of the Practical American Gardener; and it is our intention to copy more freely From the accounts we have lately seen from it still. The publisher will have little cause

#### POETRY.

In his " Loves of the Plants," the functful Dr. DARWIN, thus speaks of the beautiful little snow-white flowers Anemone which is just now in bloom.

 $otin \mathcal{F}_{\!\!\!4}$  LL wan and shivering in the leafless glade The sad Aremone reclined her head; Grief on her cheeks had paled the roseate hue, And her sweet eye-lids dropp'd with pearly dew. -- See from bright regions borne on oderous gales, "I he Swallow, herald of the summer, sails; " Breathe, gentle Ain! from cherub-lips impart ' Thy balmy influence to my anguished heart; "Thou, whose soft voice calls forth the tender blooms, "Whose pencil paints them and whose breath persumes; "O! chase the friend of Frost, with leaden mace, "Who seals in death-like sleep my hapless race; "Melt his hard heart, release his iron hand, "And give my ivory petals to expand.
"So may each bud, that decks the brow of spring, " Shed all its incease on thy wafting wing! To her fond prayer propitious Zephyr yields, Sweeps on his sliding shell through azure fields, O'er her fair mansion waves his whispering wand, And gives her ivory petals to expand: Gives with new life her filial train to rise, And hail with kindling smiles the gental skies. So shines the Nymph in beauty's blushing pride, When Zephyr wafts her deep calash aside: Tears, with rude kiss, her bosom's gaudy veil, And flings the fluttring Therefore to the gale.
So bright, the folding canopy undrawn,
Of beaux and belles displays the glittering throng, And soft airs fan them, as they roll along.

### To Farmers and Gardeners.

My notification, dated New York, 29th of March, 1819. I beg leave to point out to gentlemen engaged in Agricultural and Horticultural pursuits. It being my desire to assist in giving as rapid a spread as possible to the cultivation of the valuable Root Crops and Green Crops, in this fine and fertile country, I have this day [13th April] sent off my servant, James Hammerton, to BALTIMORE, in order that gentlemen in that part of the country may have no difficultry in obtain ing a supply of the most important articles of seed; such as, the Ruta Bega, Mangle Warzle, Turnips of the finest sorts for the garden and for the field; cabbages of various sorts; Lucerne, Sain Foin, Trefoil, White Clover, Cow Clover, Cole Seed, or rape, and some other seeds. Hammerton will sell his seeds in the market place, at such spots as he will notify in his advertisements, upon his arrival at Baltimore As the mode of cultivating the several plants is described in the First and the Second Parts of my Year's residence, Hammerton has some of those books for sale. He has also some of the Third Part as some gentlemen may wish to have the work complete. He has also some of my English Grammar for sale

WM. COBBETT.

New-York, 29th March, 1819.

### Flower and Garden Seeds, &c.

fust received by the Belvidera from England, a fresh and excellent assortment of Garden and flower Seeds and Roots, which, with the stock already on hand, renders my assortment complete. As time is fast approaching to use those articles, persons in want will find it to their advantage to supply themselves in time, by calling at my Nursery and Flower Garden, N. Lexington street extended or at Nicholas Bengador's. ington street extended, or at Nicholas Bonnehn's, No. T. B. BASHAN. 18, Commerce street. April 2

### PIRCES CULRENT

#### AT BALTIMORE:

Carefully Revised and Correcte	d ever	y <b>T</b> hu	rsday.
AUTO LES.	TEE.	RETAIL	PRICES
BEEF, Northern mess	1001	17	
No l	501	15	
No 2		13 50	
Bacon,	lb.	16	
Butter, Ferkin	1 1	15	20
Collee, first quality,		93 27	ac
second do Cotton,		27	28
Twist, No. 5,		45	
No. 6 a 10, -	1	46	50
No. 11 a 20,		53	80
No. 20 a 30, -		80	1 20
Chocolate, No. 1,		33	
No. 2,		28 23	
No. 3, Candles, mould,	zod	20	20
dipt,	30.1	18	10
spermaceti, -		45	scarce
Cheese, American,	ib.	10	15
Feathers,	1	60	65
Fish, cod, dry	qtl	3 50	note:1
herrings, Susquehannah,	bbl.	2 75	retail 12
mackarel, No. 1 a 3 - shad, trunmed, -		7 75	7 87
Flour, superfixe, -		5 50	6
fine.	obl.	5	5 50
middlings,		4 50	5
rye,	1 .	4 α	4 25
claxseed, rough,		none.	
cleaned,	bush bus	do do	
Flax, Hides, dryed,	llb.	12	15
Hogs lard,	1	12	13
Leather, soal,	1	25	30
Molasses, Bayana,	gal.	62 1-2	75
New Orleans, -		75	
sugar house,		1	
oil, spermaceti,	gal.	1 50 18 π	20
PORK, mess or 1st quality, - prime 2d do	1001.	16 a	17
cargo 3d do		14 a	15
laster,	ton	5	
ground	bbl.	1 75	
tice,	lb.	6	0
PIRITS, Brandy, French, 4th proc peach, 4th proc	rigai.	1 25	3 1 50
apple, 1st proc		75	1 00
Gin, Holland, 1st proc		1 50	
do. 4th proc			
do. N. England		50	60
Rum, Jamaica,		1 50	2
American, 1st proc		75	
Whiskey, 1st proc	lb.	50 18	
Soap, American, white, do. brown, -	10.	9	
ngars, Havana, white,	1	19	ı
brown,		12	15
loaf,	,.	25	25
lump,	lb.	20	
ralt, St. Ubes	bu .	70 75	t
Liverpoot, ground,	lb.	12	
OBACCO, Virginia fat,	cwt	7	
do. middlings,		6 50	
Rappahannock,	1	5	5 50
Kentucky, -	li.	6 50	
small twist, manufactured,	lb.	25 50	37
pound do		63	1
Southong,	lb.	75	a 100
Hyson Skin	1	75	a 150
Young tiyson,		1 25	a 150
Imperial,		1 75	1
WOOL, Mermo, clean,		80	
univashed, - crossed, clean,		65	1
unwashed, -		35	-4
common country, clean,		37	1
unwashe	ed]	25	
skuner's : -	- 1	33	J

skinner's,

### GARDENING.

### F. LUCAS, JR.

No. 130, MARKET-STREET.

HAS THIS DAY PUBLISHED,

#### 파티모

#### Practical American Gardener:

Exhibiting the TIME for every kind of WORK in the Kitchen Garden Flower Garden Fruit Garden Hop Yard

Orehard Green House Nursery Hot House Shrubbery AND Pleasure Ground Grape Vines

FOR EVERY MONTH IN THE YEAR.

#### By an experienced Gardener.

Γ. L. has received a few copies of "Cobbett's Year's Residence in the United States," together with a variety of BOOKS in every department of literature -- which with his former assortment, makes his collection very extensive and complete.

Orders for the country, executed promptly, and on terms as reasonable as any where in the U. States. April 16

### Orfeila on Poisons.

Just Published at 140, Baltimore street. DIRECTIONS.

OR persons who have taken poison, and those in a state of apparent death together with the means of detecting Poison, and adulterations in wine. Also, of distinguishing real from apparent death, translated from K H. Black, Surgeon; with an Appendix on suspended animation, and the means of prevention-First American from the latest London edition.

This work will be found useful to Practitioners, Students and Families generally-12mo. in boards, price \$1 25.

March 10.

N. G. MAXWELL.

### District of Maryland, to wit.

BE IT REMEMBERED, that on the nineteenth day of March in the forty-third year of the independence of the United States of America, Joseph P Casey of the said district, hath deposited in this office, the title of a book, the right whereof he claims as Author, in the words follow-

ing, to wit:
"The Farmer's and Gardener's Hive, showing the 25 expense and profit attending the cultivation of three hundred acres of land, and so in proportion for any other quantity; and the work necessary to be done on a Farm, and in a Garden, for every month in the year. Also a Treatise on the cultivation of the Peach. which is added, a number of Recipes, to protect all 50 sorts of Fruit Trees, Vegetables, &c. from all sorts of 50 diseases, insects, electricity; and to insure an abundant 37 crop of fruit. For all states in the Union.

tn conformity to an act of the Congress of the United States, entitled "an act for the encouragement of learning, by scenning the copies of maps, charts, and books, too to the authors and proprietors of such copies, during the times therein mentioned, and also to the act, entitled "an act supplementary to the act, entitled an act for the encouragement of learning, by securing the copies of maps, charts, and hooks, to the authors and proprietors of such copies during the times therein mentioned, and extending the benefits thereof to the arts of designing, engraving and etching, historical and other prints. PHILIP MOORE,

Clerk, District of Maryland.

# AMERICAN FARMER.

## Rural Economy, internal improvements, news, prices current.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . ViRG.

Vol. I.

### BALTIMORE, FRIDAY, APRIL 30, 1819.

Num. 5.

### AGRICULTURE.

The RUTA BAGA OF SWEDISH TURNIP

FROM COBBET'S YEAR'S RESIDENCE.

(Continued from No. 4, page 27.)

TIME AND MANNER OF HARVESTING.

This must depend, in some measure, upon the age of the turnips; for, some will have their full growth earlier than others; that is to say, those which are so docile, so gentle as these, while they require at sown first, or transplanted first, will be ripe before our hands so tittle care and labor in return ! those which are sown, or transplanted latest. I have made ample experiments as to this matter; and I then give my opinion as to what ought to be done.

This was a concern in which I could have no knowledge last fall, never having seen any turnips harvested in America, and knowing, that as to American frosts, En dish experience was only likely to miswith sheep, which scoop them out to the very bottom : or we pull them as we want them, and bring them of feeding, I shall speak by and by. in to give to fatting oxen, to cows, or to hogs. I it upon too large a scale.

I began with a piece. A part of them were taken up on the 13th of December, after we had had some pretty hard frosts. The manner of doing the tered over it a truss of Rye-Straw, and threw earth zard, a total loss. They were all rotted. out wet.

before the pullers and loosen the turnips with a are not deceived twice in the same way.

each row of turnips, took away the earth close to the bulbs, left them bare on one side, and thus made spades no longer; all our hands were employed tao'clock. Well and justly did Moses order, that the ox should not be muzzled while he was treading out the corn; for, sure v, no animals are so useful.

Now, it will be observed, that the turnips here spoken of, were put up when the ground and the will, as in former cases, first relate what I did, and turnips were frozen. Yet they have kept perfectly sound and good; and I am preparing to plant some of them for seed. I am now writing on the 10th of April. I send of these turnips to market, every week. The tops and tails and offal go to the pigs, to ewes and lambs, to a cow and working oxen, which lead; for, in England, we leave the roots standing all feed together upon this offal flung out about the in the ground all the winter, where we feed them off barn-yard, or on the grass ground in the orchard, before they have done they leave not a morsel. But,

The other crops of turnip, I mean those which had a great opinion of the hardiness of the Ruta were transplanted, and which, owing to their being Baga, and was resolved to try it here, and I did try planted so late in the summer, kept on growing luxariantly, until the very hard frosts came.

We were now got on to the 17th of December; and, I had cabbages to put up. Saturday, Sunday, and Monday, the 21st, 22nd and 23rd, we had very work was this. We took up the turnips merely by and Monday, the 21st, 22nd and 23rd, we had very pulling them. The greens had been cut off and mill mall passent or When a supplier of the sup given to cattle before. It required a spade, howe-will well remember There came a thaw afterwards, ver, just to loosen them along the ridge, into which and the transplanted turnips were out up like the oththe r tap-roots had descended very deeply. We duy ers; but, this hard frost had pierced them too deeply, fifty bushels of turnips, piling them up above the and, upon the whole, they have suffered a loss of level of the surface of the land, in a sort of a pyra-about one half. An acre, left to toke their chance midical form. When the heap was made, we scat- in the field, turned out, like most other games of ha-

over the whole to a thickness of about a foot taking. This loss arose wholly from my want of sufficient care to point the covering at top, in order to keep experience. I was anxious to neglect no necessary precaution; and I was fully impressed, as I always Thus was a small part of the piece put up. The am, with the advantages of being early. But, ear-14th of December was a Sunday, a day that I can by in December, I lost a week at Now-York; and, find no Gospel precept for devoting to the throwing though I worried my neighbors half to death to get at away of the fruit of one's labours, and a day which I a knowledge of the time of the hard weather setting never will so devote again. However, I ought to in, I could obtain no knowledge, on which I could have been earlier. On the Monday it rained. On rely, the several accounts being so different from the Monday eight there came a sharp North-Wes- each other. The general account was, that there ter, with its usual companion, at this season, that would be no very hard weather until af er Christmas. is to say, a sharp frost. Resolved to finish this I shall know better another time ! Major Carrpiece on that day, I borrowed hands from my neigh- written says, in speaking of the tricks of the Eng bors, who are always ready to assist one another, lish Boroughmongers, at the "glorious Revolution, We had about two acres and a half to do; and it that they will never be able to play the same tricks was necessary to employ one half of the hands to go again; for, that nations, like rational individuals,

spade in the frosty ground. About ten o'clock, I Thus have I spoken of the time and mapper of saw, that we should not finish, and there was evel-harvesting, as they took place with me. And, surery sign of a hard frost at night. In order, therefore, ly, the expense is a mere trifle. Two oxen and to expedite the work, I called in the aid of those four men would harvest two acres in any clear day,

with a good strong plough, going up on one side of mense crop harvested and covered completely, for about two dollars and a half an acre. It is astoning, that this is never done in England! For, it extremely easy to pull them up. We wanted though it is generally said, that the Ruta Baga will stand any weather; I know by experience, king up the turnips; and our job instead of being that it will not stand any weather. The winter of half done that day, was completed by about two the year, 1814; that is to say, the months of Jannary and February, were very cold, and a great deal of snow fell; and, in a piece of twelve acres, I had, in the month of March, two thirds of the turnips completely rotten; and these were amongst the finest that I ever grew, many of them weighing twelve pounds each. Besides, when taken up in dry weather, before the freezings and thawings begin, the dirt all falls off; and the bulbs are clean and nice to be given to cattle or sheep in the stalls or yards. For, though we, in general, feed off these roots upon the land with sheep, we cannot, in deep land, always do it. The land is too wet; and particularly for ewes and lambs, which are, in such eases, brought into a piece of pasture land, or into a fold-yard, where the turnips are flung down to them in a dirty state, just carted from the field. And, again, the land is very much injured, and the labour augmented, by carting when the ground is a sort of mud-heap, or rather, pool. All these inconveniencies would be avoided by harvesting in a dry day in November, if such a day should, by any accident be found in England; but, why not do the work in October, and sow wheat, at once, in the land? More on this after cropping another time.

In Long Island, and throughout the United States, where the weather is so fine in the fall; where every day, from the middle of October to the end of holes, at convenient distances, of a square form, and about a foot deep we put into each hole about the Many of these we find rotted near the neck; land, and where such a thing as a water-furnow in a November, (except a rainy day about once in sixfield was never heard of; in such a soil as this, and under such a climate as this, there never can arise any difficulty in the way of the harvesting of turnips in the proper time. I should certainly do it in November; for, as we have seen, a little frost does not effect the bulbs at all. I would put them in when perfectly dry: make my heaps of about fifty bushels; and when the frost approached, I mean the hard frosts, I would cover with cornstalks, or straw, or cedar boughs, as many of the heaps as I thought I should want in January and February; for, these coverings would so break the frost, as to enable me to open the heaps in those severe months. It is useless and inconvenient to take into barns, or out-houses, a very large quantity at a time. Besides, if left uncovered, the very hard frosts will do them harm. To be sure, this is easily prevented, in the barn, by throwing a little straw over the heap, but, being, by the means that I have pointed out, always kept ready in the field, to bring in a larger quantity than is used in a week, or thereabouts, would be wholly unnecessary, besides being troublesome from the great space, which would thus be occupied.

It is a great advantage in the cultivation of this efficient fellow laborers, a pair of oxen, which in the latter end of November; and thus is this im- crop, that the sowing or transplanting times comes af, in the ground, and before the harvest of grain begins; lof all the Lords that ever were created, though solently called the people of England, said, that he and they again, in the fall, the taking up of the roots there are some of very able and opeight minds too. would set them to dig holes one day and fill them up comes after the grain and corn and buckwheat harvests, and even after the sowing of the winter grain. ther here, there exists, in England, an institution holes so as to benefit the country in an immense de-In short, it seems to me, that the cultivation of this which has caused a sort of dentity of agriculture gree; but, like the human body, in some complaints, crop, in this country, comes, as it were expressly, with politics The Board of Agriculture, cotan-the nation would now be really injured by the comto fill up the unemployed spaces of the farmer's time ; but, if he prefer standing with his arms folded, the country, under the guise of agricultural survey- would do it good, and add to its strength and to all during these spaces of time, and hearing his flock ors, in order to learn the cast of men's politics as its means of exertion. bleat themselves half to death in March and April, well as the taxable capacities of their farms and To return from this digression, I am afraid of no or have no flock, and scarcely any cattle or hogs, property; this Board gives no premium or proise bad seasons. The drought, which is the great eneraise a few loads of yard-dung, and travel five miles to any but "log if farmers," who are, generally, the my to be dreaded in this country, I am quite prefor ashes and buy them dear at the end of the five have written on this subject vain.

#### QUANTITY OF CROP.

land in this island. My three acres of ridged turnips, sown on the 26th of June, were very unequal, the commodity will lie on. The transplanted turlate. This year, I shall make a fair trial.

acres in one field, and twelve acres in another field, lished by this Board, that I ever thought worth state as the result of numerous experiments, I should one thousand three hundred and twenty bushels to an acre, throughout the seventeen acres. I have no doubt of equalling that quantity on this Island. and that, too, upon some of its poorest and most exhansted land. They tell me, indeed, that the last summer was a remarkably fine summer; so they said at Botley, when I had my first prodigious crop of Ruta Baga. This is the case in all the pursuits of life. The moment a man excels those, who ought to be able and willing to do as well as he; that moment, others set to work to discover causes for his success other than those proceeding from himself. But, as I used to tell my neighbors at Botley, "You have had the same seasons that I have had. Nothing is so impartial as weather." As long as this sort of observation, or enquiry, proceeds from a spirit of emulation, it may be treated with great indulgence: but when it discovers a spirit of envy, it becomes detestable, and especially in affairs of agriculture, where the appeal is made to our common parent, and where no man's success can be injurious to his neighbor, while it must be a benefit to his country, or the country in which the success takes place. I must, however, say, and I say it with feelings of great pleasure, as well as from a sense of justice, that I have observed in the American farmers no envy of the kind alluded to; but, on the contrary. the greatest satisfaction, at my success; and not the least backwardness, but great forwardness, to applaud and admire my mode of cultivating these crops. Not so, in England, where the farmers (generally the most stupid as well as the most slavish and most charlish part of the nation) envy all who excel them, while they are too obstinate to profit from the example of those whom they envy. I say generally, for there are many most honorable exceptions; and it is amongst that class of men, that I have my dearest and most esteemed friends; men of impowledge, of experience, of integray, and of phone-spirit, equal to that of the best of Englishmen the fulness of his stupidity, proposed, that in order land, I might have saved myself some hundreds of in the worst times of oppression. I would not expublic-spirit, equal to that of the best of Englishmen

lished by Pitt, for the purpose of sending spics about munication of what, if it were in a healthy state, greatest fools. I, for my part, have never bad any pared for. Give me ground that I can plough ten or miles; if he prefer these, then, certainly, I shall communication with it. It was always an object of twelve mehes deep, and give me Indian corn spaces ridicule and contempt with me; but, I know this to to plough in, and no sun can burn me up. I have menbe the rule of that body, which is, in fact, only a tioned Mr. Curwen's experiments before; or rather little twig of the vast tree of corruption, which full's. For, he it is, who made all the discove-It is impossible for me to say, at present, what stunts and blights and blasts all that approaches its ries of this kind. Let any man, just to try, leave quantity of Ruta Baga may be grown on an acre of poisened purlien. This Board has for its Secreta-half a rod of ground undug from the month of May ry, Mr. Arthur Young, a man of great talents, to that of October; and another half rod let him bribed from his good principles, by this place of five dig and break fine every ten or fifteen days. Then, but, upon one of the acres, there were sie hundred hundred pounds a year. But, Mr. Young, though whenever there has been fifteen or twenty days of and forty bushels; I mean heaped bushels; that is a most able man, is not always to be trusted good scorebing sun, let him go and dig a hole in to say, an English statute bushel heaped as long as He is a bold asserter; and very few of his state-each. If he does not find the hard ground dry as ments proceed upon actual experiments. And, as dust, and the other most; let him say, that I know nips yielded about four hundred bushels to the acre; to what this Board has published, at the public ex-nothing about these matters. So erroneous is the but, then observe, they were put in a full month too pense, under the name of Communications, I dety common notion, that ploughing in dry weather lets the world to match it as a mass of illiterate, unin- in the drought ! I have given an account of my raising, upon five telligible, and useless trash. The only paper, pubkeeping, was an account of the produce from a sin-if visited with long droughts, give one or two addigle cow, communicated by Mr. CRAMP, the juilvery interesting and wonderful facts, properly authenticated, and stated in a clear manner.

ARTHUR Young is blind, and never attends the Board. Indeed, sorrowful to relate, he is become ling in dry weather? Why need I insist on it in an a religious fanatic, and this in so desperate a degree as to leave no hope of any possible cure. In Indian Corn looking to-day, yellow and sickly, and the pride of our health, and strength of mind as in four days hence (the weather being dry all the well as of body, we little dream of the chances and while,) looking green and flourishing, and this wonchanges of old age. Who can read the " Travels derful effect produced merely by the plough? Why, in France, Spain, and Haly," and reflect on the then, should not the same effect always proceed present state of the admirable writer's mind, without feeling some diffidence as to what may happen greater the effect, however; for there is a greater to himself!

LORD HARDWICKE, who is now the President court-sycophants are the Vice-Presidents Their tlemen, and Parsons of the worst description. And thus is this a mere political job; a channel for the money upon worthless upo, who ought to be work-Ways."

ter all the spring grain and the Indian corn are sate [change the friendship of one or these men for that to find complayment for "the population," as he in-Then, if I may be suffered to digress a little for-the next. I could tell him what to plant in the

Of course, proceeding upon this fact, which I tional plonghings between the crops when growing. keeper of the County of Sussex; which contained That is all; and, with this, in Long Island, I dely all droughts.

But, why need I insist upon this effect of ploughbody of earth to exhale from, and to receive back the tribute of the atmosphere. Mr. Curwen tells us of a piece of cattle-cabbage, in a very dry time of the Board, is a man, not exceeding my negrotin July, they looked so yellow and blue, that he aleither in experience or natural abilities. A parcel of most despaired of them. He sent in his ploughs; and a gentleman, who had seen them when the tices of the Peace, Nabobs become Country-Gen-lieve his avec when the Monday, could scarcely beday, though it had continued dry all the week.

To perform these summer ploughings, in this

squadering of some thousands a year of the people's island, is really nothing. I used one horse for the purpose last summer, and a very slight horse indeed. ing in the fields, or including "His Majesty's High An ox is, however, better for this work, and this may be accomplished by the use of a collar and two Happily, politics in this country, have nothing to traces, or by a single yeke and two traces. Tult do with agriculture; and here, therefore, it think I recommends the latter, and I shall try it for Indian have a chance to be fairly heard. I should, indeed, Corn as well as for turnips.\* Horses, if they are have been heard in England; but, I really could strong enough, are not so steady as oxen, which never bring myself to do any thing tending to improve are more patient also, and with which you may send the estates of the oppressors of my country; and the plough-share down without any of the fretting the same consideration now restrains me from com- and unequally pulling, or jerking, that you have municating information, on the subject of timber to encounter with horses And, as to the slow trees, which would be of immense benefit to Eng-pace of the ox, it is the old story of the tortoise land; and which information I shall reserve, until and the hare. If I had known in England, of the their tyranny shall be at an end. Castlereagh, in use of oxen, what I have been taught upon Long Is-

drive them before him to his plough, just hitch a hook on to the ring of the yoke, and then, without stare; and well it might, when he looked back to the ceremonious and expensive husiness of keeping and managing a plough-team in England.

These are the means, which I would, and which I shall use, to protect my crops against the effects of even for his own sake, amongst other considerations, a dry season. So that, as every one has the same when he is assisting us to bring his crop to perfection. means at his command, no one need be afraid of drought. It is a bright plough-share that is always wanted much more than showers. With this culture there is no fear of a crop; and though it amount to only five hundred bushels on an acre, what crop is half so valuable.

to be sure, and they raise a trifling portion of exha-lation; but, it is trifling indeed. Dry weather, if of long continuation, makes the leaves become of a bluish colour, and, when this is once the case, all never make the crop a good one; because the plough cannot more amir's the scene of endless irregularity. This is one of the chief reasons why the ridge method is best. (To be continued)



this as in all other parts of his manner of cultivating the ridge uneven at the top, presentes the ground, which that is the art and mystery of using them. It is a comthis as in all other parts of his manner of cultivating is injurious. For ploughing between the rows of Tur-mon practice to steam turnip for cows and horses. One hand. But, in our country, it is difficult to get a mass and of Ind. or Corn also, what a great convenience man in particular, Mr. Brotherrow, who is owner of ploughman to hook at an ox. In this Island the thing this will be! An ox goes steadier than a horse, and will most of the stages from Liverpool, on the Manchester is done so completely and so easily, that it was, to plough deper without fretting and tearing; and he wants road, grows the turnips and steams them regularly, as a me, quite wonderful to behold. To see one of those heither ham smaller nor green. The plan of my yoke I principal part of the field or orchard, at sun rise, with his yoke in his hand, call his oxen by hour. It is a piece of wood, with two holes to receive N. B. Forty bushels, heaped measure, make a ton: so name to come and put their necks under the yoke, two ropes about three quarters of an inch in diameter. These traces are fastened in the yoke merely by a knot. which prevents the ends from passing through the holes, while the other ends are fastened to the two ends any thing except a single chain and the yoke, with no of a Wiffictive, as it is called in Long island, of a Wipptreins, no halters, no traces, no bridle, no driver, set the as it is called in Kent, and of a Whypurce, as it is called in Kent, and of a Whypurce, as it is called in Hampshire. I am but a poor draftsman; but if the the day; to see this would make an English former printer can find any thing to make the representation with, the preceeding deaft will clearly show what I have meant to do cribe in words. When the Corn (Indien) and turnips get to a size, sufficient to attract the appetite of the ox, you have only to put on a muzzle. This is what Mr. Tull did; for though we ought not to muzzle the ox " as he treadeth out the corn," we may do it

### THE RUTH BAGA CULTURE.

TO THE EDITOR OF THE AMERICAN FARMER. Fulton-street, New-York, 19th April, 1819.

Sir-In the second part of my year's residence, The bulk of crop, however, in the broadcast, or gave some account of an extraordinary field of Ruta Barandom method, may be materially effected by ga (or Swedish Turnips.) which was, as I had been indrought, for, in that case, the plough cannot come to supply the place of showers. The ground there, will be dry and keep dry in a dry time; as in the light ing is his report relating to it. What he adds respectcase of the supposed half rod of undug ground in the ling the mode of using this root is, I think, well worthy of garden. The weeds, too, will come and help, by the attention of American farmers. The fetter, or make garden. The weeds, too, will come and help, by the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, is dated London, 28th January 1981 and 1981 are the following is an extract, and 1981 are the following is an extract, and 1981 are the following is an extract their roots, to suck the moisture out of the ground. ary, 1819. If you think the extract, together with this As to the hand-hoeings, they may keep down weeds explanatory note worthy of a place in your paper, you the distance of three feet every way. will, by inserting them, confer an obligation on, sir, your most obedient servant,

lowing is an account of it: -Half a ton off eight yards sprouts. the rain and all the fire weather in the world, will square of graund, of Swedish turnips with heads and tails cut off, ready for market, and the selling price to cowkeepers and cattle feeders, 2 pounds sterling per ton. Thus the report of the crop being worth 2001, per acre, is an exaggeration of only 40 in the 200. For this eigh yards square, which is two statute rods, is only one Cheshire rod. The turnips were by far larger than any I ever -aw before, and very thick on the ground; but, you must understand that it is only in patches that they are so very fine. They are sown upon the same plan that our bailiff had those three acres that you found in the Home field, at Hill-farm, after the villams let you out from Newgate that is, with the Northumberland drill upon a single bout vidge, the ridges at two feet apart, and the plants thinned to one foot in the rows; they Profess to have the trees, hot in the open ground. intervals awenty-seven inches, but they are barely two

feet.

"This crop, of upwards of thirty-seven tons, not in cluding greens, to a statute acre comes off land which was, a very few years since, a wild marsh. The soil is rather sandy, but moist; and no manure has ever occu put on but horse and cow dung. They expect just as good a crop from the same piece of ground again next year, without any manure. I was very anxious to get a score of the best of these turnips, to send you with your seeds but as the farmer was not at home, the poor creature of

them, but no white turnips, and, what is very odd, not; of Russia mats, only a few at once. \*Since the above was written, [see [\*] in the preceding sown at three or four different times, one after the other, sown at three or four different times, one after the other, while nobody in trampshive hea, this year, any such is given between the seeds at this season very rapidly:

pounds a year. I ought to have followed Tull in walk upon the ploughed land which, besides making the crops, they have likewise, what is full as much, and

N. B. Forty bushels, heaped measure, make a ton: so hat here are 1430 bushels to the American acre, selling for 74 pounds sterling or 333 dollors) an acre; and that too, at an English shilling a bushel which is not a quarter of a dollar, while the same sort of turnip is selling, a hole-ale, at New-York, for a dollar a bushel! What a fine carto to send hither! But let us hope, that after this year, America will stand in need of no such eargoes. I hope hat we shall show, this summer, that we know how to resist from rain, and sun, and fine land, as well as other cople. I mean, this year, to try whether Hampstead Plains will not beat this famous Laneashire crop

From the Practical American Gardener.

## For the month of May.

[CONTINUED.]

Brussels' Sprouts, and Jerusalem Kale. The Brussels' Sprouts and Jerusalem Kale, to be managed as the Borecole.

Turnep Cabbage and Turnep roated Cabbage. The seed of the turnep cabbage, may now be sown and the plants afterwards treated as directed for cabbages; but do not earth them above the swelling bulb or stem. The turnep rooted kind should be sown on a bed of strong rich ground, and treated as turneps. Thin the plants with the hoe, to the distance of 16 inches apart.

The early sown plants may now be planted out.

Broccoli.

The early sown broccoli plant should now be planted out into beds of good rich earth, in an open situation at

Broccoli seeds should be sown early in this month. your most obedient servant, WM. COBBETT.

"I had not time to write to you from Liverpool an account of a fine field of turnips I there saw but the folthe purple kind, and they will produce abundance of

Management of Beans in blassom.

The early mazagan, long podded, Windsor bean, &c. should be topped, when arrived at full bloom, and the lower pods beginning to set The early mazagan bean, may be topped, when about two feet high, and the larger sort, when about three feet high; this may be done with the finger and thumb.

Sowing Peas.

A few of the early hotspur peas, where a succession is wanted, may be sown twice this month.

Transplanting Lettuces.

In moist weather, transplant such of the lettuce, sown in the two former months, as are fit, not near

Dig the ground neatly, and rake the surface smooth, then dibble in the plants, in rows, ten or twelve inchen asunder, and the same distance from one another in the rows; water them immediately, and repeat it occasionally, until they have taken root.

Such as are intended to remain for beading, where sown, should now be thinned to about ten or twelve inches every way.

Sowing Lettuce Seed.

Lettuce seed of various kinds, may now he sown, two or three times, this month, for a constant supply. The a man who stood shivering in the rain, holding a horse different heading kinds, also the Aleppo and Egyptian rug over his shoulders, did not know whow he would take it? This was something new to me.

The work of the rain, holding a horse different heading kinds, also the Aleppo and Egyptian rug over his shoulders, did not know who he would take it? This was something new to me. "This cultivation of the Swedish turnip is very gene. Various kinds of cos which are now beginning to gather ral in Lancashire. I saw along the road many fields of and whiten in the heart, should be tied up with strings

swer excell utily well. Now, my work is much shortenthing as a field of turnips. Behrt, (a nick name for the saids as cresses or repper-grass, &c. Sow the seeds at ed.; for in forming ridges, two Oxen are architecture. They fig more than ordinarily toracious, at them all p. But his season in shallow utills, on shall be deers, cover occupy a wide space, and one of them is obliged to besides, the fellows in the northern countries, having got them lightly, and give them eccasional waterings.

Kidney Beans.

A principal crop of kidney beans should be planted, in the first week of this month, and successional crops, about the middle, and also towards the end.

Any of the dwarf kinds may now be planted. The cream-coloured, brown speckled, yellow and white, are the earliest sorts, and should be chosen for the first

crop. Let double drills be made for them, with a hoe, about two and a half feet asunder, and an inch and an half deep; drop the beans therein at the distance of two or three inches from one another, draw the earth smoothly over them.

The various kinds of running beans, may also, now be sown in drills, four or five feet asunder, and the seeds planted double the distance, of the dwarf sort, from one another. When the plants come up, and their runners begin to shoot, let some tall sticks, or poles, be placed to each row, for them to climb upon. they will soon take hold, and twine themselves around the poles, to the height of eight or ten feet, or more.

The Scarlet runner, though in some of the eastern state it produces plentifully, in the middle states seldom produces much, and is only cultivated for the beauty of

Carolina and Lima Beans.

The Carolina beans may be planted in the first week of this month, and treated as directed for the running kidney beans.

The Lima beans, should not be planted, in the middle states, before the middle of the month, when vegetation is very brisk, for they are subject to rot, if planted in cold weather, when the ground is moist. They should have a light sandy rich soil, and be planted in hills at the distance of six feet from hill to hill ; and the poles for their support, ought to be strong, and near ten feet high. Both these kinds are very productive, will continue bearing till overtaken by frost, and are very delicious.

Radishes.

Hoe, or weed, and thin the advancing crops of radishes. Continue to sow a fresh supply, every two weeks.

Planting Radishes for Seed.

Transplant radishes for seed when the roots are just in their prime; set them in the ground in showery weather, if possible, if not give them frequent waterings. Choose for this purpose, some of the best kinds, long, perfectly strait rooted, and with short tops; those of clear pale red, and those of a deep purple, are to be preferred.

Plant the roots by dibble, in rows four feet asunder, and one foot in the row, in an open situation, and give

them a good watering immediately after.

Select also, some of the best formed white and red turnip-rooted radishes, of moderate growth, hoe out the others, and let them rumain for seed; or if necessity requires, you may transplant them; in that case, plant the bulbs in the earth, leaving the tops free, and water them.

Spinach.

Weed and thin the spinach sown last month; and of the early crops, both of the round leaved and prickly seeded kinds, leave a sufficiency, both of the male and female plants, for seed.

If a continuation is required, sow more of the smooth

Cleaning and thinning Carrots and Parsnips.

Carrots may now be well cleared from weeds, and the plants thinned to about six or seven inches apart. Parsnips should also be attended to in like manner, and thinned to from eight to ten inches asunder, and the ground hoed between them.

Planting out Celery.

Some of the early celery plants, from the seed-bed should now be pricked out to obtain strength, previous to a final planting in trenches. They should be planted at the distance of three irches from one another, on beds of rich losse earth, watered immediately, and atterwards occasionally, till they grow freely; and when they have acquired sufficient strength, they are to be planted in trenches, as directed in June.

Asparagus.

Asparagus is in the best state for cutting when the shoots are from two to four inches above ground, and the buds are close and compact. Keep the beds free from weeds, and discontinue the general cutting, as soon as the stalks appear small and weaker than usual, as it; they are to remain, as they do not bear transplanting; tween us and the prince, we should derive some ad-

produce.

Sowing Celery Seed.

Sow more celery seed for a principal later crop; shade them in hot sunny weather, and give them oceasional waterings.

Weed the early beets, and thin them to eight or nine inches, plant from plant. Continue to sow some of the red beet seed in drills.

Roota Baga, or Swedish Turnep.

The Reeta Biga is more of the species of the turnep rooted cabbage, than the common garden or field turnep If the seed has not been sown in the last month, it may be sown, in the broad cast way, early in this. As the plants advance in their growth, they should be bood out to the distance of about sixteen inches every way; they will continue increasing in size, till late in autumn, when if not used before, they may be taken up, and preserved through the winter, in like manner as turnips; they are more hardy, will keep better, and be as fresh in May, as at Christmas.

The flesh of the root is yellow, sweet, and firm, being nearly twice as heavy, as the root of the common turnep of the same size. It is by many people preferred to the common turnep.

Onions.

The onions which were sown at an early season, with an expectation of their growing to a sufficient size the first year for table use, should now be perfectly eleared from weeds, and the plants thinned to about three inches from each other; some of them should be pulled out at an early period, and kept clear of weeds, from the first sowing, till they arrive at perfection

Onion seed may be now sown broad-cast, on rather a poor soil, to raise small bulbs for the next year's erop, and if the ground should be very dry, you may water

them occasionally.

Turneps. Hoe and thin your turneps; and sow some more of the early Dutch, in the beginning of this month, for a succession. The sowing should be performed immediately after rains; sow them thin and even, and rake the ground smooth.

Homburg Parsley, Scorzonera, and Salsafy. The large rooted parsley, scorzonera, and salsafy, must now be carefully cleaned from weeds, and thinned

to about six inches asunder

Early in this month, sow principal crops for autumn and winter

Capsicums, or Red Peppers.

Early in this month you may sow, in a bed of rich earth, seeds of various kinds of capsicums; the large flat kind, commonly called bull-nose, is that which is preferred for pickling. These plants may be planted out in rows, about the first of June.

The early plants raised in hot-beds, should in the middle states, be now planted out, where they are to remain taking advantage of the moist, or rainy weather. The rows to be two feet asunder, and the plants eighteen inches apart in the rows. When planted, give each some water occasionally, to be kept free from weeds.

Tomatus.

Sow the seeds of tematas in the first week in this month, on a warm sandy soil, to remain for fruiting, or they may be transplanted, as before directed. Plant from the hot beds, about the middle of this month, those plants, which are forwarded therein; about two feet apart, and provide supports for them to run on: or they may be trained to fences, as they run greatly, if kept clear of weeds.

Momordica, or Balsam Apple.

There are two species of this plant, the large and the small.

The large balsam apple is a great runner, and requires a trellis twelve or fourteen feet high to run on, in order to support it in the best manner; it will require some assistance in training it with strings. When it begins to produce fruit, the appearance is beantiful; they are sometimes from twelve to fifteen inches in length, and as they begin to ripen, are of a high, rich orange colour, and are much admired in our markets, though as a vulnerary, the smaller kind is preferable.

The seeds of the large sort, as well as the smaller, should be planted about the middle of this month, where

would exhaust the roots, and injure the next years the soil should be very fine and rich. Put four or five seeds in a place, and if they all come up, permit only two to stand; should they be intended to form an arbour others may be planted at three or four feet distance, and attended to in like manner, or they may be planted and treated as a rolina and Lima beans, and supported by long poles.

The smaller kind may be planted as the above, and when they appear above ground, fix sticks four or live feet high, for them to climb upon.

 $E_{gg}$ -Plants.

About the middle of this month, you should set out, for fruiting the early plants, which were forwarded in the hot-beds. A rich sandy soil is the most suitable for them. Plant them two and a half feet asunder. As they advance in growth, draw some earth about their stems; keep them clean from weeds.

Endine.

Some endive may now be sown for an early crop; but at this season, it is very apt to run to seed, and towards the latter end of the month, more may be sown. The white and green curled endive are the sorts to sow When the plants are about three inches high, they should be transplanted into beds, at the distance of ten or twelve inches from each other, and immediately wa-[To be continued]

TO THE

### Lieutenants and Midshipmen

OF THE UNITED STATES' NAVY.

With every disposition on the part of your country, to furnish you the means of obtaining practical information in the line of your profession, many of you must necessarily remain unemployed at sea, for the want of room on board our ships. You are, however, generally, attached to navy-yards, to ships in ordinary, or in port, and you have the opportunity of storing your minds with information highly necessary to perfect you in the knowledge of the duties of an experienced commander; and if this is denied you, in whatever situation you may be placed, the means are afforded you of nequiring those liberal attainments, without which, no one can be an accomplished officer, and which may be more useful to those of the pavy than of any other profession. No gentleman should be without them; and, least of all, should you deprive yourselves of the golden opportunity which now presents itself; you, who are individually and collectively responsible for the character and standing of your country among foreign natious; you, who are to be its representatives abroad; you, who are frequently to decide on great national questions, and are to stand before princes and potentates of all nations, to sustain the rights of your country, founded on national law. Do you not deem it necessary to qualify yourselves in a knowledge of those languages, and those laws, which may hereafter nut only render you useful, but highly ornamental? The time may be, and the circumstances may occur, that from a single individual of the navy, the character of his nation may be inferred. Suppose, for example, some of our ships, in their extensive cruizes for your instruction, or for other purposes, should touch at the port of some one of the princes of India, who had never seen an American; we will suppose the commander to call on him; we will suppose this commander to be a highly accomplished officer, capable of imparting to the prince a correct knowledge of our country, its political institutions, its commerce, &c &c.; we will suppose his manners dignified, his whole conduct imposing,-would it not, I ask, be natural for this prince to infer, that this officer was a fair sample of his nation? and is it not likely, that, in the event of commercial or other intercourse be-

vantage from the favourable implessions produced of this officer on his mind? This is the situation of which you may all be placed; no rank is exempted from it; every officer, from the admiral who commands his fleets, to the midshipman, to whom no distinet duties can be assigned, are all liable to it What will be the pride of your country, if you, as their representative, acquit yourselves honorably? what their mortification, if otherwise? With such strong inducements, then, before you, need I admonish you of the necessity of applying all your leisure to those studies, which the paternal care of your country affords you the means of perfecting yourselves in, and without which, the nature of your profession, and the early period at which you have embraced it, would deprive you of the opportunity of doing? Let not the time be uselessly spent, that is not occupied in scarch of knowledge purely professional; and even you, who are actively employed, do not place so high a value on your personal exertions, as t. obstruct your minds from higher considerations. The strength that can execute, and the bravery that nothing can daunt, are highly estimable; but of what avail is strength and courage without the skill to direet them. They are estimable in the ox and the horse; man may possess them, and be despised. Courage and strength, alone, never yet constituted what is generally called a great man. The most accomplished statesmen and warriors, have been men frequently remarkable for their feeble constitutions and want of personal strength than otherwise; nay, the greatest naval hero that the world has pro-

duced, was infirm and a cripple when he gained his

greatest victories. And how did he rise to that de-

gree of splendor which has dazzled the world? Not so much by his courage and strength, as by the

most unremitting attentions to every thing which re-

lated to a knowledge of the duties of a naval officer.

From an obscure cabin Loy, through every successive

grade, he rose to the rank of admiral :- the protec-

tor of his country, her pride and her glory; the

scourge and the dread of her enemies; the saviour of states, the companion of kings! There were

some blemishes in his character, but it was its bril-

Hancy that rendered them so conspicuous. The rise of a navy officer is slow, but progressive; if he has merit, every day brings him nearer to his goal; the race of Nelson, was long and tediou Nearly the whole period allotted to the life of man, was spent, ere he had attained the meridian of his glory. But can this be so much the case in our navy ? Has not promotion been so rapid, as to scarcely allow the time necessary to qualify those who are advanced to a higher mink? And have we not seen those in command of squadrons, who, but a very few years since, entered the service as midshipmen? Such has been the rapidity of promotion, and equally (and if possible more) rapid it promises to be; but do not flatter yourselves to obtain it without deserving it. No rules have heretofore been established in relation to promotion they are now adopted; public notice has been given of the time when examinations will take place, and every thing shows a diposition on the part of the government to enforce them. Formerly, some obtained promotion, who have proved unworthy of it; now, none can receive it but those who bid fair to become useful and ornamental to their country. Such may, under the existing rules, demand promotion, for they are entitled to it. Now, compare your situation with those of the same classes in the British pavy; let us look at the letters of the "Post Captain," mentioned in my

former address to you; he says, in pages 2, 3, and t of his introduction, that a mid-hipman must serve six years before he can obtain the rank of lieutenint; that few, except the sons of men of interest, obtain the rank of captain before thirty, and that the average age of arriving at the rank of rear admiral, is lifty-five years, a period of exposure and servitude sufficient to wear out any but an iron constitution. You may be admirals in the time required to form a British post captain! What is the language placed by the " Post Captaic" in the mouth of a British lieutenant? "What is the use of mu exerting myself? I have no chance of promotion. I shall be a first lieutenant until I am grey headed; then, perhaps, I may be promoted by seigniority." Page 6, of letters.

After complaining bitterly of the existing state of things in the administration of the British navy, and recommending a system corresponding with the one which has been established by us, he says,

"There is a growing marine on the other side the Atlantic, that will, in another war, dispute with us the dominion of the seas. We may at first beat them by numbers; but, unless we alter our system, they will beat us singly; and the maritime nations of Europe will be glad to assist them in reducing our power at sea, as the continent to overturn the military sway of France.

"Your lordship will excuse my speaking plain; the state of the navy requires it, and the safety of the country demands it." Page 7.

Such is the language of a British " Post Captain;" but do not let it full you into a confidence of your own superiority; a confidence which was felt by British naval officers, and which has brought on England the evils which she now deplores; rather let it roure your hest energies to render the foregoing quotations prophetic

### Miscellaneous Selections.

A NAVAL OFFICER

The eighteenth century, beyond any other in the circle of authentic history, has been distinguished for the ap-

plication of mechanical means in aid of the physical powers of mankind. It has been estimated, that, in the Island of Great Britain alone, the use of machinery was so general, as to have been equivalent to an addition to the population of one hundred millions of adult persons.

Boston Manufacturers. There have been finished this week, at Doggett's Manufactory, in Market-street, a pair of Looking Glass s, the piers of which are 72 by 40 inches. They have been purchased by one of our patriotic citizens, and now adorn his elegant mansion. The price paid for them, was nine hundred dollars; and we think them richly worth every cent of the money. We have a double satisfaction in noticing this subject; in the first place, that we have a mechanic capable of executing so superb a specimen of finished American Workmanship; and in the next, that we possess citizens able and wilting to patronize such talent and enterprize. We feel no hesitation in saying, that the carved work, gilding, &c. of these glasses, would vie with the best productions of workshops of London or Paris .- Bost. pap.

Portland, April 21 .- Arrived in this town last week, Admiral GEORGE TATE, of the Russian Navy, on a visit to his relatives and friends who reside in this place and vicinity. Admiral Tate came with his parents to this country from England, when between one and two years of age, and resided in that part of Falmouth called Strondwater. At the age of twenty, he left this for the West Indies, and thence to England-and soon after entered the Russian service-in which he has continued ever since, a period of forty eight years, and by his morit and good conduct, as an officer and gentleman, he has risen to the first rank and command in his profession. the highest court of the Empire.

to my mind some scraps WEIGHTS AND

The commercial world will Insumere nali. that a plan has been commenced a rentus the British government, for determ. Wes. &c. contents of the weights and measures of \ countries. This important subject is to be acco." by procuring from abroad, correct copies of foreign standards, and comparing them with those of England at his majesty's mint. Such a comparison, which could be effected only at a moment of universal peace, has never been attempted on a plan sufficiently general or systematic; and hence the errors and contradictions which abound in tables of foreign weights and measures, even in works of the highest authority In order, therefore, to remedy an inconvenience so perplexing in commerce, viscount Castlereagh has, by the recommendation of the hoard of trade, issued a circular, dated March 16. 1818, directing all the British consuls abroad, to send home copies of the principal standards used within their respective consulates, verified by the proper authorities, and accompanied by explanatory papers and other documents relative to the subject. Most of his lordships orders have been already executed in a very full and satisfactory manner. The despatches and packages transmitted on the occasion, are deposited at the royal mint, where the standards are to be forthwith com-

Marvellous -A circumstance has recently taken place at Fahlun, the capital of Delacarlia, in Sweden, which might figure with advantage in a novel. In working to establish a new communication between two shafts on a mine, the body of a miner was discovered in a state of perfect preservation, and impregnated with vitriolic water. This body was quite soft, but hardened on being exposed to the air. No one could identify the individual. it was only recollected, that the accident by which be had been buried in the earth, had taken place fifty years ago. All enquiries as to the name of the sufferer, had already ceased, when a decripid woman, leaning upon crutches, slowly advanced towards the corpse, and knew it to be that of a young man to whom she had been promised in marriage, half a century ago. She threw herself on the body, which had the appearance of bronze, bathed it with tears, and fainted with joy at having once more beheld the object of her affection, this side the grave. It is easier to conceive than to trace the contrast offered by this couple -the one buried fifty years ago still answering all the appearances of youth; while the other, weighed down by age, evinced all the fervency of youthful love.

In Sanda, one of the Orkney Isles, the sand has lately been blown away to the depth of nearly twenty feet, and has discovered the remains of buildings of a remote antiquity, enclosed by stone walls nearly half a mile in extent; some of the houses are very large, and roofed with stones of prodigious size. There are circular tumeli, each containing three graves, none of which are more than four feet six inches in length; and there is no tradition affoat that can throw light on these very curious remains, which have undergone hitherto but a very slight investigation.

#### RAPID GROWTH.

Killed, at Easton, in the County of Bristol, Mass. on the 12th inst. a Hog, the property of CYRUS LOTHROP, Esq. one year and eight months old, which weighed 742 fb. The thickest of his pork measured nine inches in the clear. He girted five feet round the neck, seven round the largest part of his body, and was six feet and two inches in length. He was purchased on the third day of Dec. 1817; at that time a small Pig. and so unpromising in appearance, that he would not sell for half the then market price. He discovered no signs of uncommon growth until April, 1818 : from which time, until he was killed, the rapidity of his increase was really astonishing. He gained in one year, six hundred and sixty five pounds.

It is said of Lopez de Vega, the Shakspeare of Spain, that he was once asked by the bishop of Bellero to explain one of his sonnets, which the bishop said he had often read, but never understood. Lopez took to the sonnet; and after reading it over and over several lenes, admiral Tate is also a member of the Russian Senate, frankly acknowledged that he did not understand it him-

Kidney TIMO日程: A principal crop of kid in the first week of thise, APRIL 30, 1819. about the middle, and

Any of the cream-cologic cultivation of Indian Cornmethod of planting described-fluctuation of price—its causes—choice of seed—mode of curing it recommended.

As the season is at hand for planting Indian Corn, we beg leave to invite the attention of Agriculturists to some particulars, wherein experiments may be tried, to improve the quality, and to increase the quantity of that most important and valuable grain, deservedly considered the staff and the boast of our country. It is probably, too late now, to make any suggestions relative to the mode of planting—as, before this will reach the eye of the reader, he will have progressed too far in his preparations to adopt any new plan; for those, however, who may have it in their power to make the trial, we will here mention the system adopted by Col Tigitor, of Caroline, Virginia, and now, as we understand, practised and highly approved of, to a considerable extent in that

According to his plan, corn should be planted at the distance of 5 1-2 feet square, with two or three stalks in a hill, according to the strength of the ground; on that which is quite poor, one grain is deemed enough for each hill-This is the method pursued by him, on land that will not produce more than 40 bushels to the acre; and, in Maryland, we are sorry to say, very few farmers make that much, except, perhaps, in Frederick and Washington Counties. The rows are never ploughed, but in one direction, that is, north and south. If the land will produce more than 40 bushels, it may, according to his opinion and practice, be planted 5 1.2 feet one way, and tica feet nine inches the other; cross ploughing is wholly abandoned; and the roots, in one direction, remain uncut through the whole period of cultivation. The most common mode in this state, is, to plant it equi-distant in all directions, about 6 feet each way, and to plough it both ways alternately. Very little pains is taken in the first instance, to have the furrow made perfectly strait, as it might be done; and what gives to the field a still more slovenly appearance, and is attended with disadvantages and embarrassment through the whole course of cultivation, the entire want of method, or precision, in arranging the distance of the hills from each other, in the line of the furrow.

The usual mode after the field is listed, without any guage but the ploughman's eye, is, for each labourer to take his hoe and crossing the furrow, dig a hole for the corn at what he guesses to be about 6 feet; having no guide but his eye, and his imagination, both of which are often dwelling on other objects-so, that nothing can be more irregular and unseemly, than a field of corn so planted. One might suppose, to look at it, that it had been dropt by a blind or a drunken man. The irregularity in the standing of such corn, prevents one from seeing through a row of a few hundred yards in length .- It requires continual watchfulness, afterwards, on the part of an uninterested stave ploughman, who must take special care to make a zig zag furrow, lest by a straight line furrow he should cut up one half of the hills.

The method spoken of by Col. Taylor, of fixing the

doubt very good; another, and a very simple one, which we have seen practised, is to fasten two small sapplings so that the two ends, which are intended to make the mark across the furrow, shall be at whatever distance the corn is designed to be planted in that direction .- These sapplings are fastened by a cross bar, uniting them just behind the horse; the other two ends are brought nearer, so as to be about the distance before, of the shafts of a horse eart, and fastened like them to the hames -- a back and crossing over a common cart or pack saddle, constiany ploughman, without the aid of a nail or of a black-

In the use of this sledge, it will be observed, that having made one straight line across the furrows, by keeping the heel of one shaft, always in the last outside mark these marks cross, the furrows, every one, is sure to be of precisely the same distance.—The sledge is controlled by yellow.

the workman, with perfect ease, by means of a small | haw of green wood, each end of which is put through an argur hole, and wedged in near the lower end of each shaft of the sledge; making a handle for the workman In the common way, as here described, the sledge marks one row each time, but it might easily be so constructed as to describe two or even three rows at least, for earn planted at the distance of 2 feet 9 inches.

As to the time of planting .- On the western shore in the lower counties of this state, with whose practice the I ditor is more conversant, the usual time " fixed by the old people," is from the 1st to the 20th cf May, but most commonly they commence about the 10th of that month. On the eastern shore of Maryland, it is balieved they plant, on an average, 10 days sooner; the object being, probably, to gain time for replanting; but it often happens, that the corn planted so carly, rots in the ground, for want of sufficient atmospheric heat to promote vegetation : we incline to think, that in this, as in other crops, the latter planting is the best system, as it insures an offhand and uniaterrupted vegetation and growth, which must be in all cases of great advantage.

THE NUMBER OF SEED IN A HILL. -In our humble judgment, it would be tetter to double the usual number, which is three or four, and the reasoning is this :-

The great enemies to young corn in our country, are the crow and the black bird-by which, soon after it makes its appearance, it is seized and pulled up. These vile robbers, in a state, naturally, either of restlessness or of constant apprehension, remain but a very short time at each hill; so that it would generally happen, that if they remained long enough to pull up, say two or three grains, the usual number planted, they would most probably "hop off," leaving still a sufficient number of surviving stalks, if six or eight had been planted. If none should be pulled up by the birds, they are easily thinned at a proper season.

Again-by planting a greater number of grains, the roots of all become so intertwined with each other, that the bird cannot easily draw up one without bringing along the whole mass, which either exceeds his strength or the strength of the young stalk.

As TO THE KIND OF CORN .- Un this point, much might be said, as much depends on the purposes for which it is intended, the climate where it is to be cultivated, and the nature of the land.

What at first appeared strange to us, and may so appear to some of our readers, is, not so much that the price of corn varies almost every day in the Baltimore market, from one to three cents per bushel, but, that different kinds of coin should be each, alternately, high-

er and lower than the other. These irregularities grow out of a variety of causes. They are a source of perplexity and of considerable fault finding amongst the planters of Maryland, many of whom attribute it to occasional combinations amongst the purchasers here. It we knew of, or if any person will convince us, of such combinations to forestall or monopolize, as the sincere friend and humble advocate of the Agriculturest, we will not hesitate to expose and reproduce them; but we feel persuaded, that such combinations are much more easily imagined or apprehended, than they are actually formed. We are of epinion, that these vibrations of price turn on other causes. The rise or fall, in general, speaking without regard to any particular kind of corn, depends on the quantity in market at the distance of the hills by coloured rags on a string, is no time, and on the general demand, for home and foreign markets; this is the course of nature, and is a sort of truism, which we need searcely have repeated. The higher prices, for yellow or for white corn, is not so gener. By understood. This depends on the relative pro portions of each in market, combined with a view to the particular foreign market for which the demand hap- | Editor of the .Imerican Farmer. pens, at the moment, to exist, and where, for all we can learn, the price of either, depends, not so much on any bank fastened to a hook, a staple or a pin on each side, intrinsic difference between them, as on the taste and prejudices which prevail amongst different people in tutes the whole gier necessary for this simple instrument different countries. For the southern ports within the which may be constructed with an axe and an augur, by United States, for example, the white corn, is purchased almost exclusively; it is intended for elacks, employed in the more profitable cultivation of rice and cotton; and blacks are known, it is believed, every where, to entertain a strong disinclination, not to say antipathy, to yeltow corn, so that, if a few vessels happen to "be up," as made by the other shaft-then dropping the corn where the merchants phrase it, for the southern, and note for

On the other hand, for the Eastern States, where " the felle" calculate very nicely the length, breadth and the weight of thouse: where they have no slaves, and where the corn is fed to their horses and other live stock, none but yellow corn is demanded, that being considered more solid and nutritious than white. To the West Indies and the Portuguese markets, the yellow corn is usually exported; to Madeira and other markets, we have been told, the white is usually sent. The much greater part of the great quantity consumed in this city, is white-and far the larger proportion of all that is sold in this market, is of that colour.

With a view merely to the price, however, the farmer might select the one, or the other, with, in general, an equal chance of a satisfactory price. His selection, therefore, should be guided with a view to quantity, having an eve to the streng h of his land, as that which yields most on rich, could not be sustained on poor land.

From our observation upon the different species of corn cultivated in this state, we should give the preference to the long yellow narrow grained gourdseed," unless it were on land so poor that we should not wish to cultivate it at ail: For all our river bottoms, and for tolerably good strong upland, we think it possesses decided advantages. over other kinds. These advantages consist in no superiority of quality, but in the greater quantity which It vields. It has been objected to it, that it has foo large a cob: but is it not manifest, that the larger the circumference of the cob, the greater the quantity of grain necessary to cover it? To this corn, the grain of which is much longer than any other, this observation applies in an eminent decree.

We have been credibly informed, and believe the fact, that a barrel of the cars of this corn, will shell ix bushels, and often more, of grain; whereas, from other kinds, not more than five are expected. The common number of rows on an ear, is from 14 to 22t on the vellow gourd seed; the writer of this has several times seen forty perfect rows; for the truth of which, reference may be had to the venerable and much respected Chief Judge of the Maryland District Court of the United States, to whom the Editor once sent one containing that number. This Corn, it is true, takes longer to dry, and is more liable to be injured in the loft than other corn, owing to the length of the grain, and the compactness of the rows. and perhaps also to the thickness of the husk. This is the only argument we have heard against the adoption of it; but if the corn loft be properly constructed, all danger on that score may be obviated, and as to the idea that it is longer in ripening, and more likely to be overtaken by the frost, the Editor of this paper affirms, that he remembers, when quite a hoy, that his lamented fother, tesiding near the Court House, in Calvert County, had his whole crop of this corn husked and lofted by the last day of October. The object, he believes, was, to sow wheat in the field. The earn was thoroughly and soundly cured, but it was probably saved by the following extraordinary process, which is worthy of record and of further trial.

The left was that of a round log house, used below, for a stable. The floor of the loft consisted of thick sleepers, split out of chesnut timber, and the edges not quite touching. A tire was kindled below for several days in succession, and to heat but to smoke the corn. The smoke did pass accordingly through the whole mass, say 150 barrels, and the corn was thoroughly and completely dried and cured.

It has often since occurred, that this plan might be put in practice with great advantage, and would allow corn other irregularity, respecting the alternate prevalence of to be gathered at an earlier period. It goes conclusively to obviate the objections against that kind of corn, and leaves it, on a consideration of all other circumstances, without a rival or competitor, in the estimation of the

<sup>\*</sup> It is a fact, we presume generally known, that corn never has an odd number of rows.

The quantity of grain which corn with yield in proportion to its bulk in the ear, may be measured by fastening a paner close round the ear, then withdrawing it, and shelling the grain into the paper. The grain, if a sound ear of genuine gourd seed corn, will fill the space thus occupied by the whole

<sup>†</sup> The stock of this corn was procured from the late Basil Brooke, who cultivated it on Bettle creek, and from whose

### El Fron late from England.

Ey the fast sailing ship Friten, captain ilonomb, in 18 days from Liverp ol, vehave received from our correspond his in London, fil s to the end of March, and Liverpool capers to the id its!. We have copied the articles which they formship of precess interest to the American reader. Transpillity seems to have been in a greater measure restored in Transce. The new members of the clearther of poers had been principally qualified and taken their seat. The Chie her of Depar-ties had not been deselved, and on the other hand had show their disposition to support the ministry, by rejecting the proposition from the poors, relative to the law of elections, by a bandsome majority.

In the British House of Commons, after a very interesting inquiry, a debate on the petition against the hon Windham Quin, a member from Lunerick, charging him of bribing : a resolution against him was negatived

-ave- 77, noes 182

St. Jean d' Angeley, who had obtained permission to return to France, arrived at Paris March 10, and died the day after of the gout in the stomach.

A : c man paper estimates the fortune of the Prince of face, at 100,000.000 Spanish the lare, of which 40,000, 00 are said to be deposited in England, and 10 000 + 0 in France.

The examinations before it a secret committee of the House of Commons, for inquiry into the state of the Range, has terminated, but the report has not yet been His excellency M. Leteur Mabourg, is appointed

French minister to the court of London.

The celebrated M. de Hotzehne was assassinated by a student at Manheim, or the 23d of March; and the latter immediately committed suicede with the same proiard which had been the instrument of his crime. - Both instantly expired.

In consequence of an agreement between the Spanish and British Contraments, a Mr. Dick is to proeced from England to Vera truz, to receive a quan-

tity of specie collects inturation t.

A great number of vessels have been chartered in England, to proceed to the Lacific Ocean with goods, under an idea that the Revolutionists have made a succcssful attempt on Lima.

A plan for employing the poor in agricultural labours that they may obtain the whole or a part of their support, is under consideration in England. It is stated, that there are 10,000 acres of waste land near London, which might be made productive by extra labour.

The emperor of Russia has published an ordinance, by which the right of establishing manufactures of every description, is granted to the peasants, it having been

before confined to the nobility and merchants.

The mourning for the late king of Sweden, was conthreed for a whole year, except one month, when it was stepended on account of the coronation; and it was for that reason, continued a month beyond the year. But the lent period of wearing mourning having proved injurious to the trade, the king a having taken into consideration that the loss of a good king, or a member of the royal family, is great enough for a faithful people without increasing it by any observances injurious to the public and stry," has ordained, that, for the future, mourning for a king or queen shall last but six months.

The births in Strekholm, during the last year, 1818, were 2341, deaths, 2280; marriages, 505; divorces 26.

LIVERTOO, APAIL 2. The Velocipede alias Accelerator, alias the Pedestrian's Hobby Horse, alias the T arena. &c &c. has been f Hy rescribed, with an accompanying engraving, in a recent number of the Mercury, and subsequently in the Kaleidoscops. We some time ago predicted, that it would soon be all the rage; and we now find that it is becoming more general every day. We find that one has been manufactured in this from the description given in the Mercury; and that it has been found to answer beyond the expectation of the maliers.

EARTHQUASES .- A letter from Palermo, of the 4th inst received on Saturday, contains the following particulars :- " We have had most dreadful weather here these as tourteen days, with three heavy shocks of an earthquake, which has done much mischief on the south-east part of the Island, throwing down churches per lb. Fowls \$1 25 per pair.

and destroying whole villages. Muci, damage it is also taken place allong the suppling call 1 am happy to say that nothing of any consequence has import I have. Letters from Messina of the Ed, from Napos a the Ed. were also received; but though they remove all do it of the suffer of Messina, they contain no terr culars of the devas ation mentioned in the Palermo letter.

The Ghent Journal affirms that the General's Hegand ed Grouchy, are on the eye of retarning to Prance from America. The French Government are taking decisive suchs to relestablish the fortresses, which the Allies had Jisaantled: \$30 pieces of cannon have been ordered from La Richelle to the ensura frontier, and above 500 condemned pieces had been sent to the foundary of Strasburg to be recast.

A person who left Cadiz on the 18th ult, and who is now in Paris, has communicated the following details relative to the expedition about to be sent to Buenes Ayres :-

"The number of troops is about 13,000, including infantry and cavalry, and already occupy their canton-ments in the neighbourhood of that port. Cou. t d' Abisuel (O'Donnell, on he commands in chief, and who is appointed Viceroy of Buenos Ayres, assembled in Cadiz 15,000 on the 28th of January last, the day appointed to celebrate the interment of her Majesty, the late Queen. He reviewed them in the place of St. Antonie, in the pre-enes of a considerable body of spectators which increased the splend i of the ceremony, and who all admired the equipment and steady discipline of the

"All the Generals who are attached to the expedition, are at this moment assembled in Cadiz. General O'Donnell is necessarily occupied in enforcing every precaution accessary to accelerate its departure, called to such an important destiny, and which will, without doubt, be the finest that ever left the ports of Spain. The troops are animated with the best spirit, and every thing excites the most pleasing hopes-Journal des Debats.

To arrest herses in the act of cunning off.

A German writer, suggests a simple method of stopsing horses from running away :-the plan is to have blinds so attached to the head stall of the bridle, that by drawing a cherk rein, fixed for that purpose, the blinds will immediately close over the eves, and by confound ing the horse, compel him through fear, to stop immediately. If the plan be found to answer, it ought to be adopted, particularly in the case of all public stages .-The line from the blind might be futened to the front of the stage, so that any passenger might pull it, in case of accident to, or abence of the driver. It is confidently affirmed, that the most ungovernable horse or mule may be subdued and made quite tractable, by stopping his ears with wool or cotton so as to prevent his hearing.

Present prices of Maryland produce, in the Bulmore market:

The last advices from abroal have had a tendency to depress in some degree, the prices of tobacco, which, during the last week, had been looking up. From Bremen, advices received to the 24th March, at which time, it is stated, that 650 hogsheads Kentucky tobacco had been sold at at an average of 6 1-2 stivres : Virginia is quoted at from 7 to 13, and Marvland good, with a good proportion of colored, is quoted at 12 5-8 stivres.

A stivre may be estimated at two cents, but an allowance of 10 per cent, discount, is to be made for costs and charges and drawbacks, of various kinds; the nett proceeds may be reckoned at the average rate of 13 cents

for Li stivres.

TONACCO-Patusent, of rood quality, from 11 to 13; three horsheads from the neighbourhood of Friendship, in Anne Arundel county, sold this week, for 510; wagn tobacco, from \$13 to 16; Eastern Shore, \$9 to 10; Potomac crop, \$10.10.

CORN, whate, three loads from E. Shore sold for 55 yellow, 54 WHEAT, write, \$1.50 red, 1.10 FLOUR, from the waggon, 6.50 RYE, 90 OATS, per cargo, 45 to 50

Deef, boicher's 12 1 2 cents; Mutton 12 1-2 do. Veal 12 1 2 do. Yeal per quarter, from the country, \$1 to 1 50; Potacoes, retail in market, all per bushel; Eggs 18 3-4 per doz. Butter, very little fit to eat, best, 50 to 62 1-2 cents

to my mind some scraps The merchants and teaders

receive and circulate double.

and the paris of doubteons at the susumere nati. crease of their current value is mad rentus of encouraging the importation of then dies, &c. undies, and to prevent the exportation to the C.

It is said, that several British Naval Officers, have been

struck from the rolls, for entering the Revolutionary

Aragram .- It is a curious coincidence, that the words Price Regent," should form the anagram G. R. en pretonce."

#### BIRTHS.

On the 11th ult. the wife of Mr. S. Wheeler, of Carliste, Con. was safely delivered of 3 living children-two daughters and a son-the son, however, survived but a few hours-the mother and the two daughters are likely to d) well. What is further remarkable, is, that Mr. W. about 14 months since, buried a son and two daughters, in the course of ten days-two of whom were interred in one grave,

#### DIED.

At Saekett's Harbour, on the 14th inst. Lieut. Lewis GERMAN, of the U. S. Navy, and son of Gen. Obadiah German, of Chenango. He was a brave and merito ious officer, second in command on Lake Ontario, and nobly defended his country in the late war, under the gallant Holl and Bainbridge, on board the Constitution frigate, when the Gurriere and Java, British frigates, were taken.

On the 25th January last, in Pulaski county, West Tennessee, whither he went last fall on a visit to a sonin law and daughter, General John Hamilton, of Guilford county, N. C. He was one of Gen. Green's aids, on the day of the battle fought at Guildford C. H. on the 15th of March, 1781, and was active in gaining our Independence.

### F. BETTS,

BOOKSELLER AND STATIONER.

4, South Calvert, and 57 1-2 Market streets. AS just received Cap and Letter Paper, English of superior quality; English Ink Powder, Wafers, Sealing Wax, Durable lok, Drawing Paper, Mathematical lustruments, Slates, &c.; Ledgers, Journals, Day, Memorandum, Receipt, Letter and Invoice Books, various sizes. All new publications regularly received. School, Classical Medical, and Miscellancous Books in the greatest variety.

Country Merchants, Preceptors of Academies and Schools, Purchasers of Libraries and others, supplied on the same terms as beretofore, by wholesale or April 30.

### Flower and Garden Seeds, &c.

UST received by the Belvidera from England, a fresh and excellent assortment of garden and flower seeds and roots, which, with the stock already on hard, renders my assortment complete. As time is fast approaching to use those articles, persons in want will find it to their advantage to supply themselves in time, by eall-ing at my Norsery and Flower Garden, N. Lexington street extended, or at Nichoras Bonnefin's, No. 18, commerce street. T. B. BASTIAN. April 2-4t.

### New London Books

JUST RECEIVED by the Franklin-Shakespeare's Genius justified-being Restorations and Illustrations of Seven Hundred Passages in Shakspeare's Plays, -By T. JACKSON.

The Annual BIOGRAPHY and OBITUARY for the

year 1819. ST. PATRICK, a National Tale of the 5th century, 3 v. COQUETRY, a novel in 3 vots.

CAMPBELL, or the Scottish Probationers, a Novel in 3 v.

WILL BE OPENED TO-MORROW, A select assortment of STATIONARY, by the Franklin, N. G. MAAWELL. April 16-4t No. 140, Baltimore

Kidney, ral Repository, A principal crop of kid 1. Tal 11epository, in the first week of this, Implements of Husbandry, etc.

about the middle, an-... SEY, No. 2, Hanover Street, ad Any of the cream-col joining Mr. Ganser's Hotel, has received from . . en. parts of Europe, (where they could be best pro

#### THE FOLLOWING

### Seeds and Flower Roots, viz.

20 varieties of Cabbage Seeds, including those which Cobbett mentions in his last 6 Month's Residence

6 varieties of Brocoli and Cauliflower Sceds, adapted

to the climate of this country.

6 do. of Beets, two sorts of which are a very fine Spinach, and a substitute for Asparagus.

8 do. of Lettuce, two sorts of which sell in Europe for 12 shillings sterling per ounce

6 do. of Radishes (very beautiful) do.
6 do. of Turnips. Other varieties too numerous to

Also a numerous variety of FLOWER SEEDS, made up in small packages, amongst the latter is carnation. Pheasant eyed pink; and Auricula at 25 dollars per oz. The above are all genuine

and adapted for all parts of the union.

To close the sales of his Flower Roots, he will sell the fol-

lowing Roots at reduced prices, viz.

Double Anemonies, of sorts

Ranunculuses, scarlet and Persian, do Do

Do Tulips mixt

Carnation Tulips Do Do Yellow Rose Do

Best Dutch single Tulips Do Parroquet

Polyanthus, Narcissus, and Tuberoses.

What we admire, we praise; and when we praise,

" Advance it into notice, that its worth " Acknowledged, others may admire it too."

#### JUST PUBLISHED,

### A Farmer & Gardener's Hive,

Showing the expense and profit attending the cultivation of 300 acres of land, and so in proportion for any other quantity; with a table directing the proper quantity of different sorts of seed or grain necessary to be sown on an acre of land, either for drdl or broad cast husbandry-To which is added, a Farmer and Gardener's Callendar, showing what is necessary to be done on the farm and in the garden for every month in the year; with many valuable recipes neces. ary for the farmer in cultivating his land and protecting his fruit trees from ail sorts of diseases, insects, etc. Also to preserve sheep from the rot, to make poultry lay eggs, make good cheese; to ensure an abundant crop of grapes, apples, pears, peaches, gooseberry and currents; and to protect vegetables of every description from catterpillars and other insects-tn he had at his seed store, with his signature annexed—Copy right secured according to law

AGRICULTURAL SEEDS, such as Clover, Timothy, Flax, Orchard, etc. bought or exchanged for other Seeds. April 2

#### Fresh Garden & Flower Seeds.

THE following imported Seeds were selected by one of the first Gardeners in the country, who went to Europe expressly for the purpose. Likewise, are received, an assortment of the celebrated Shaker's Seeds Among them are the following, viz.

15 kinds of Beans, 6 ditto Radishes, 7 ditto Peat, 7 ditto Cucumbers, 20 ditto Cabbages, 9 ditto Lettuce, 6 ditto Turnips, 3 ditto Onions; Asparagus, Celery (solid) curl ed Parsley, Garden cresses, round and prickly Spinach Sweet Marjoram, Mangel Worzel, Salsafy, or Vegetable Oyster; Cauliflower, Carrots, Melons, &c. 100 kinds o Flower Seeds. Also, the Gentleman and Gardener's Calendar, containing full instructions respecting Gar dening, for sale at No. 223 1.2, Market street, opposite the Farmers' and Merchants' Bank.

### April 2-St.

### PRICES CURRENT

AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Revised and Corrected	l ever	ry Thui	rsday.
ARTICLES.	PER.	RETAIL	PRICES
BEEF, Northern mess	bbl.	17	
No 1	1	15	
No 2	112	13 50 16	
Bacon,	lb.	18	20
Coffee, first quality,	1	33	
second do	1	27	28
Cotton, Twist, No. 5, No. 6 a 10, -		27	
Twist, No. 5,		45 46	50
No. 6 a 10, - No. 11 a 20, -		53	80
No. 20 a 30, -		80	1 20
Chocolate, No. 1,		33	
No. 2,	i	28 25	
No. 3,	box	20	22
dipt,	1	18	19
spermaceti,			scerce
Cheese, American,	lb.	9	10
Feathers,	qtl.	8 50	65
Fish, cod, dry herrings, Susqueliannah,	bbl.		retail
mackarel, No. 1 a 3		9	12
shad, trimmed, -		7 75	7 87
Flour, superfine,	bbl.	6 50 5 50	7 6
fine, middlings,	bot.	4 50	5
rye,	1	4 a	4 25
Flaxseed, rough,		nonc.	
cleaned,	busk		
Flax,	lb.	do 12	15
lilogs lard,		12	13
! eather, soal,		25	30
Molasses, Havaoa,	gal.	62 1-2	75
New Orleans,		75	l
sugar house,	gal.	1 50	
PORK, mess or 1st quality, -	bbl.	:S a	20
prime 2d do		16 a	17
cargo 3d do.	aot	14 a	15
Plaster, ground	bbl.	1	
Rice	lh.	- 6	1
PIRITS, Brandy, French, 4th proc	t gal.	1 2 1 25	3
peach, 4th proc apple, 1st proc		75	
Gin, Holland, 1st proc		1 50	1
do. 4th proo			
do. N. England		50	
Rum, Jamaica, - American, 1st proc	f	1 50	
American, 1st proo Whiskey, 1st proo		50	1
Soap, American, white,	lb.	18	20
do. brown, -		9	1
Sugars, Havana, white,	1	14 50	1
brown,	1	25	
lump,	ľъ.	20	
, ralt, St. Ubes,	bu -		
[ Liverpool, ground,	11.	75 12	
shot, all sizes, robacco, Virginia fat,	]]b.		1
do. middlings,	10"	6 50	o]
Rappaliannock,		5	5 50
Kentucky, -	12.	6 50	
Small twist, manufactured,	lb.	25	
pound do		63	
Southong,	lb.	75	
Hyson Skin		7.5	
Young Hyson, Imperial,		1 25	
l- VOOL, Merino, clean,		80	
unwashed		40	p
e crossed, clean,		65	
unwashed, - 's common country, clean,	1	3:	
common country, clean, unwashe	ed	2.	
e skinner's,	-	§ 5:	

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Vol. 1.

### BAUCIMORE, FRIDAY, MAY 7, 1819.

Num. 6.

### AGRICULTURE

The RULA BAGN OF SWEETSH TURNIP. FROM COEBETT'S TEAR'S RESIDENCE.

(Concluded from No. 5, page. 25.

USE OF AND MODE OF APPLYING THE CROP

steamed (which is better) no dog that I ever saw in the same way. of it.

(in the month of April) with my crop.

ear of Indian forn each; the pigs nothing but the food and labour, and taking credit for the calf, never fed in any other way, though they know how to only Mr CRAMP's was a Sussex cow feed themselves whenever there is any thing good to were of the Alderley breed; little, small boned feed be found above ground.

ther. I give about three buckets of boiled Ruta which were shifted twice a day, made three hundred Baga to seren pigs every day, not having any conver-pounds of butter from the 28th of March to the nierce for steaming; and two baits of Indian corn 27th of June. This is a finer country for cattle in the ear. And, with this diet, increasing the than England; and yet, what do I see ! quantity with the growth of the pigs, I expect to

and never grow an iach; and they are, indeed, not worth having To have milk, you must have cows, and cows are vast consumers! To have cows, you must have female labour, which in America, is a very precious commodity. You cannot have meal, without sharing, in his kind, pretty liberally with the miller, besides bestowing labour, however busy you It is harder to say, what uses this root may not be may be, to carry the corn to mill and bring the put than what uses it may be put to, in the feeding meal back. I am, however, speaking here, of the pigs of animals. They are eaten greedily by sheep, from my English breed, though I am fir from suphorn cattle, and hogs, in their raw state Loiled or posing, that the common pigs might not be weared the manure The Ruta leaga, taken out of the

will refuse it. Poultry of all sorts will live upon it it sooked state. Some dogs will even eat it raw, Baga twice a day. About three ears of Indian sy place, it will keep a go d sort of hog always in a a fact that I first became acquainted with from per- orn a piece twice a day. As much offal Ruta Baceiving my shepherd's dog cating it in the field along ga raw, as they will eat. Amongst this boiled Ruwith the sheep I have two Spaniels that come to Baga, the pot-liquor of the nonse goes, of course; into the barn and eat it raw; and yet they are both in but then the dogs, I dare say, take care, that the a fine condition. Some of the horses will nearly best shall fall to their lot; and as there are four of live upon it in the raw state; others are not so fond them pretty fat, their share cannot be very small. Every one knows, what good food, how much meal Let me give an account of what I am doing now and milk are necessary to sows which have pigs. It is not pretended, that this root, measure for then, what a chance concern this is? for, the sows measure, is equal to Indian corn in the car. There- may perversely have pigs at the time when the cows fore, as I can get Indian corn in the ear for a half do not please to give milk; or, rather, when they, a dollar a bushel, and, as I sell my Ruta Baga for a poor things, without any fault of theirs, are permithalf a dollar a bushel at New-York, I am very spar- ted to go dry, which never need be nor never ought ing of the use of the latter for animals. Indeed, I to be the case I had a cow once, that made more use none at home, except such as have been injured, than two pounds of butter during the week, and had as above-mentioned by the delay in the harvesting a calf on the Saturday night. Cows always ought These damaged roots apply in the following manner to be milked to the very day of their calving, and Twice a day I take about two bushels, and scat-during the whole of the time of their suckling their ter them upon the grass for lifteen Ewes with their calves But, "sufficient unto the day is the evil lambs, and a few wether sheep, and for seven stout thereof" let us leave this matter, till another time store-pigs, which eat with them. Once a day, I slaving, accidently mentioned cows, I will just obfling out a parcel of the refuse that have been cut serve that, in the little publication of Mr. t RAMT. from the roots sent to market, along with enblage mentioned above, as having been printed by the leaves, and stems, parsnip fibres, and the like. Here Board of Agriculture, it was stated, and the proof the working oxen, hogs, cow, sheep and fowls, all given, that his single cow gave him, clear profit, for feed as they please. All these animals are in an ex- several successive years, more than fifty pounds cellent condition. The cow has no other food; the sterling a year, or upwards of two hundred and working oxen a lock of hay twice a day; the Ewes ar twenty dollars This was elear profit; reckoning the roots; the fowls and ducks and turkeys are the butter and for the skim milk at a penny a quart, things; but, two of my cows, fed upon three quar

This difficulty about fee ing sows with young turn them out of the stye fatter (if that be possible pigs and weaning pigs, is one of the greatest of himthan they entered it. Now, if this be so, every far- brances to improvement; for after all, what animer will say, that this is what never was done before and produces flesh meat like the hog? Applicable

ing but little space for its accommodation; and yet if grain and corn and milk are to be their principal food, during their lives, they cannot multiply very fast; because many upon a form, cannot be kept to much profit. But if, by providing a sufficiency of Ruta Baga, a hundred pigs could be raised on a farm in a year, and carried on 'till fatting time, they would be worth, when ready to go into the fatting style, fifteen dollars each. This would be somethin, worth attending to; and, the farm must become rich from heaps early in April, will keep well and sound all the very thriving and even fleshy state.

This root being, called a turnip is regarded as a turnip, as a common turnip, than which nothing can be much less resembling it. The common turnip is a very poor thing. The poorest of all the roots of the bulb kink, cultivated in the fields; and the Ruta Baga, all taken together, is, perhaps the very best. It loses none of its good qualities by have no milk, for my cow has not yet calved. And being long kept, though dry all the while. A neighbor of mine in Hampshire, having saved a large piece of Ruta Baga for Seed, and having, after harvesting the seed, accidentally thrown some of the roots into his yard, saw his hogs eat these old roots, which had borne the seed. He gave them some more, and saw that they eat them greedily. He therefore went and bought a whole drove, in number about forty, of lean pigs of good large size, brought them into his yard, carted in the roots of his seed Ruta Baga; and, without having given the pigs a handful of any other sort of food, sold out his pigs as fat porkers And, indeed it is a fact well known, that sleep and cattle as well as hogs will thrive upon this root after it has borne seed, which is what, I believe, can be said of no other root or plant.

When we feed off our Ruta Biga in the fields, in England, by sheep, there are small parts left by the sheep; the shells which they have left after scooping ont the pulp of the bulb; the tap root; and other little bits. These are pecked out of the ground; and when washed by the rain, other sheep follow and live upon these Or, in default of other sheep, hugs or cattle are turned in the dry weather,

and they leave not a morsel.

Nor are the greens to be forgotten. In England, I am weaning some pigs, which, as every one ters of an acre of grass ground, in the middle of they are generally eaten by the slice, when these knows, is an affair of m lk and meal. I have nei-my shrubbery, and fastened to pins in the ground, are turned in upon them. When the roots are taken up for uses at the home-stead, the greens are given to store pigs and lean cattle. I cut mine off, while the roots were in the ground, and gave them to fatting cattle, upon grass land alternate'y with Lodian orn in the ear; and in this way, they are easily and most profitably applied, and they come, too, just after the grass is gone from the pastures. An acre produces about four good wagon loads of greens; in America. We all know how important a thing it to all uses, either fresh or salted, is the meat. Good and they are taken off fresh as they are wanted, and is to wean a pig well. Any body can wear there in all its various shapes. The animal killable at air of the same time, the roots are thus made ready for without milk and meal, but then, the pigs a e good ges. Quickly fatted. Good if half fat. Capable going, at once, into the heaps. Pigs, sheep, cattle; for nothing. They remain three months afterwards of supporting an immense burden of fat. Demand- all like the greens as well as they do the roots. Try

Kidney, i, they will A principal crop of Eid t, their tastes. in the first week of this .zle, the Cabbage, the Carrot, about the middle, an , re all useful; and the latter, that Any o'say, ... Farsnip, very valuable indeed; but a cattle crop is the Ruta Baga. Even the white turnip, if well cultivated, may be of great use; and, as it admits of being sown later, it may be often very desirable to raise it. But reserving myself to speak fully, in a future part of my work, make a short enquiry as to the value of a crop of Ruta Baga, compared with the value of any other crop. I will just observe, in this place, however, that I have grown finer carrots, parsnips and Mangle Wurzle, and even finer cabbages, than I ever grew upon the richest land in Hampshire, though not a seed of any of them was put into the ground until the month of June.

A good mode, it appears to me, of making my proposed comparative estimate, will be to say, how my own in this island, of only one hundred acres. If there were not twelve acres of orchard near the -ouse, I would throw as much grass land to the rchard, as would make up the twelve acres, which would fence in an effectual manner, against small igs as well as large oxen.

Having done this, I would take care to have fifteen acres of good Indian corn, well planted, weil suckered, and well tilled in all respects. Good deep ploughing between the plants, would give me forty bushels of shelled corn to an acre; and a ton to three cows and my sheep and hogs, of which I shall speak presently.

I would have twelve acres of Ruta Baga, three acres of Early Cabbages, an acre of Mangle Worzle, an acre of Carrots and Parsnips, and as many White Turnips, as would grow between my rows of Indian corn, after my last ploughing of that crop.

With these crops, which would occupy thirty-two keep a good house in all sorts of meat, together with butter and milk, and to send to market nine quarters of beef and three hides, a hundred early fat lambs, a hundred hogs, weighing twelve score, as we call it in Hampshire, or two hundred and forty pounds each, and a hundred fat ews. These, all together, would amount to about three thousand dollars, exclusive of the cost of a hundred ewes and of three oxen; and, I should hope, that the produce of my trees in the holds in England.

I am, you will perceive, not making any account of the price of Ruta Baga, Cabbages, Carrots, Parsnips, and White Turnips, at New-York, or any other market. I now, indeed, sell Carrots and Parsnips at three quarters of a dollar the hundred, by is gone. But my ewes, kept well through the intale; cabbages (or last fall) at about three dollars ter, will soon be fat upon the twelve acres of orcha hundred, and White Turnips at a quarter of a dol- and and the hay ground, aided by my three acres of the clear profits of the farm. lar a bushel. When this can be done, and the distance is within twenty or thirty miles, on the best rather pulling up. The weight of this crop may be road in the world, it will, of course, he done; but made very great indeed. Ten thousand plants will my calculations are built upon a supposed consump-stand upon an acre, in four feet ridges, and every tion of the whole upon the farm, by animals of one plant ought to weigh three pounds at least. I have sort or another.

i, they will have changed | ga does not come to its sweetest taste. It is like an apple, that must have time to ripen; but then it retains its goodness much longer. I have proved, and hay fields and grain fields, after harvest, and about especially in the feeding of hogs, that the Ruta Baga forty or fifty wagon loads of Ruta Baga Greens, is never so good, until it arrives at a mature state. would carry me along well until December, the In February, and about the first of that month, I | Cabbages being planted at different times) for my should begin bringing in my Ruta Baga, in the manner before described. My three oxen, which would be only increasing in demand for food; and the new have been brought forward by other food to be spoken of by and by, would be tied up in a stall, looking of my experiments as to these crops, I shall now into one of those fine commodious barns'-floors which we have upon this island. Their stall should be warm, and they should be kept well littered, and cleaned out frequently. The Ruta Baga, just chopped into large pieces with a spade or shovel, and for the latter will live well upon Mangle Wurzle; tossed into the manger to the oxen, at the rate of about two bushels a day to each ox, would make them completely fat, without the aid of corn, hay, or any other thing. I should, probably, kill one ox at Christmas, and, in that case, he must have had a longer time than the others up in other food. If I I would proceed, supposing me to have a farm of killed one of the two remaining oxen in the middle of March, and the other on the first of May, they would consume 266 bushels of Ruta Baga.

My hundred ewes would begin upon Ruta Baga at the same time, and, as my grass ground would be onty twelve acres, until after bay time, I shall suppose them to be fed on this root until July, and they will might be sold, leaving me the straw for litter. always cat it and thrive upon it. They will eat | These surely would pay the rent and the labor ; and about eight pounds each, a day; so that, for 105 if I am told that I have taken no account of the days, it would require a hundred and twenty thousand mutton, and lamb, and pork, that my house would pounds weight, or two thousand four hundred bushels.

Fourteen breeding sows to be kept all the year the acre of fodder for my four working oxen, and round, would bring a hundred pige in the spring, and they and their pigs would, during the same 150 days, consume much about the same quantity; for though the pigs would be small during these 150 days, yet they eat a great deal more than a sheep in proportion to their size, or rather bulk. However, as they would eat very little during 60 days of their age, I have rather overrated their consumption.

Three cows and four working oxen, would, during acres of ground, I should not fear being able to the 150 days, consume about one thousand bushels, which, indeed, would be more than sufficient, because. during a great part of the time, they would more than half live upon corn stalks; and, indeed, this, to a certain extent, would be the case with the sheep. However, as I mean that every thing should be of a good size, and live well, I make ample provisions.

I should want, then, to raise five hundred bushels of Ruta Baga upon each of my twelve acres; and why should I not do it, seeing that I have this orchard, and of the other fifty-six acres of my farm, year raised six hundred and forty bushels upon an would pay the rent and the labor; for, as to taxes, acre, under circumstances such as I have stated them. the amount is not worth naming, especially after the I lay it down, therefore, that with a culture as good sublime spectacle of that sort, which the world be as that of Indian corn, any man may on this island (where earn will grow) have 500 bushels to the acre.

I am now come to the first of July. My oxen are fatted and disposed of. My lambs are gone to market, the last of them, a month ago. My pigs are reaned, and of a good size. And now my Ruta Baga early cabbages, . hich are now fit to begin cutting, or shown before how advantageously Ruta Baga trans-

eens of White Turnips ; | begin with February ; for, until then, the Ruta Ba- | months of July and August. But what a crop of buckwheat would follow such of the cabbages, as came off in July. My cabbages, together with my ewes would be sold fat in July, and my pigs would hundred ewes need not, and ought not, to be kept so well as if they were fatting, or had lambs by their

From the first of December to the first of Februand my hundred hogs, intended for fatting, would be much more than half fat upon the carrots and parsnips. I should, however, more probably, keep my parsnips until spring, and mix the feeding with carrots with the feeding with corn, for the first month, or fifteen days, with regard to the fatting hogs. None of these hogs would require more than three bushels of corn each to finish them completely. My other three hundred bushels would be for sows giving suck; for the ewes, now and then in wet weather; and for other occasional purposes.

Thus all my hay, and oats, and wheat, and rye, demand, neither have I taken any account of a hundied summer pigs, which the fourteen sows would have, and which would hardly fail to bring two hundred dollars. Poultry demand some food; but three parts of their raising consist of care; and if I had nobody in my house to bestow this care, I should, of course, have the less number of mouths to feed.

But, my horses. Will not they swallow my hay and my oats? No: for I want no horses. But, am I never to take a ride, then? Ay, but if I do, I have no right to lay the expence of it to the account of the farm. I am speaking of how a man may live by and upon a farm. If a merchant spend a thousand a year, and gain a thousand, does he say, that his traffick has gained him nothing? When men lose money by farming, as they call it, they forget that it is not the farming, but other expences that take away their money. It is, in fact, they that rob the farm, and not the farm them. Horses may be kept for the purpose of going to church, or to meeting, or to pay visits. In many cases, this may be not only convenient, but necessary to a family; but upon this island, I am very sure, that it is neither convenient nor necessary to a farm -"What!" the ladies will say, "would you have us to be shut up at home all our lives; or be dragged about by oxen." By no means; not I. I should be very sorry to be thought the author of any such advice. I have no sort of objection to the keeping of horses upon a farm, but I do insist upon it, that all the food and manual labour required by such horses, ought to be considered as so much taken from

I have made sheep, and particularly lambs, a part of my supposed stock; but I do not know, that I should keep any beyond what might be useful for my house. Hogs are the most profitable stock, if you have a large quantity of the food that they will thrive They are foul feeders; but they will eat no-My feeding would be nearly as follows. I will iplanted, would follow these cabbages, all through the thing that is poor in its nature; that is to say, they

will not thrive on it. They are the most able tasters in all the creation; and that which they like best, you may be quite sure has the greatest quantity of nutritious matter in it, from a white turnip to a piece of beef. They will prefer meat to corn, and cooked meat to raw; they will leave parsnips for corn or grain; they will leave carrots for parsnips; they will leave Rnta Baga for carrots; they will leave cabbages for Ruta Baga; they will leave Mangle Wurzle for cabbages; they will leave potatoes [both being raw] for Mangle Wurzle. A white turnip they will not touch, unless they be on the point of starving. They are the best of triers. Whatever they prefer is sure to be the richest things within their reach. The parsnip is, by many degrees, the richest root; but, the seed lies long in the ground; the sowing, and after culture, are works of great niceness. The crop is large with good cultivation; but, as a main crop, I prefer the Ruta Bata, of which the crop is immense, and the harvesting, and preserving, and application of which, are so easv.

The farm I suppose to be in fair condition to start with. The usual grass seeds sown, and so forth, and every farmer will see, that, under my system, it must soon become rich as any garden need to be, without my sending men and horses to the water side to fetch ashes, which have been brought from Boston, or Charleston, an average distance of seven Inndred miles. In short, my stock would give me, in one shape or another, manure to the amount in utility of more than a thousand tons weight a year of common yard manure. This would be ten tons to an acre, every year. The farm would, in this way become more and more productive; and, as to its being too rich, I see no danger of that; for a broadcast crop of wheat will, at any time, tame it pretty sufficiently.

Very much, in my opinion, do those mistake the matter, who strive to get a great breadth of land, with the idea, that, when they have tired one field, they can let it lie, and go to another. It is better to have one acre of good crop, than two of bad or indifferent. If the one acre can, by double the manure, and double the labour in tillage, he made to produce as much as two other acres, the one acre is preferable, because it requires only half as much fencing, and little more than half as much harvesting as two acres. There is many a ten acre of land near London, that produce more than any common farm of two hundred acres. My garden, of three quarters of an acre, produced more, in value, last summer, from June to December, than any ten acres of oat land upon Long Island, though I there saw as fine fields of oats as I ever saw in my life. A heavy crop upon all the ground that I put plough into, is what I should seek, rather than to have a great quantity of land.

The business of earting manure from a distance, can, in very few, if any cases, answer a probtable purpose. If any man would give me even horse dung at the stable door, four miles from my land, I would not accept of it, on condition of fetching it. I say the same of spent ashes. To manure a field of ten acres, in this way, a man and two horses must be employed twenty days at least, with twenty days wear and tear of wagon and tackle. Two oxen and two men do the business in two days, if the manure be on the spot.

La concluding my remarks on the subject of Ruta Baga, I have to apologize for the desultory

manner in which I have treated the matter; but I have put the thoughts down as they occurred to me, without much time for arrangement, wishing very much to get this first part in the hands of the public, before the arrival of the time for the sowing of Ruta Baga this present year. In the succeeding parts of the work, I propose to treat of the culture of every other plant that I have found to be of use upon a farm; and also to speak fully of the sorts of cattle, slieep, and hogs, particularly the latter. My experiments are now going on; and I shall only have to communicate the result, which I shall do very faithfully, and with as much clearness as I am able. In the meanwhile, I shall he glad to afford an opportunity to any persons who may think it worth while to come to Hyde Park, of seeing how I proceed. I have just now [17th April] planted out my Ruta Baga, Cabbages, Mangle Wurzle, Onions, Parsnips, &c. for seed. I shall begin my earth burning in about fifteen days. In short, being convinced, that I am able to communicate very valuable experiments, and not knowing how short, or how long, my stay in America may be, I wish very much to leave behind me whatever of good I am able, in return for the protection which America has afforded me against the fangs of the borough-mongers of England; to which country, however, I always bear affection, which I cannot feel towards any other in the same degree, and the prosperity and honor of which, I shall, I hope, never cease to prefer, before the gratification of all private pleasure and emoluments.

From Sinclair's Code of Agriculture.

#### ON DRAINING.

Relieving land from superfluous moisture, is one of the most important branches of husbandry. Unless that be accomplished, every other improvement, of which the soil is susceptible, must often be unsuccessfully attempted. Fortunately, no department in agriculture, has been of late more anxiously studied, nor with greater practical success.

The basis was laid by the discoveries of a farmer in Warwickshire, (Joseph Elkington) who was led to it by an accident.\* It is a happy event for society, when such accidents occur to those, who have sense

to my mind some scraps sufficient to avail themselves

suggested

In discussing the subject, the reentes shall be considered. 1. The advan dies, &c. 2. The causes of wetness; 3. The sous of commonly used; 4. The instruments em; and 5. The modes of draining the different soils, and

the objects to which that improvement is applicable.

1. Advantages of Draining.

The benefit of draining is experienced, 1. In arable land; 2 In grass; 3. In woods and plantations; 4. In the improvement of wastes; 5. In the climate; and 6. in various miscellaneous particulars.

- 1. Arable Land. While land remains in a wet state, the manure laid upon it, is, comparatively speaking, of little use; the seed sown often perishes; the crops are sickly and later of ripening; and the operations of harvest are attended with uncertainty and danger; whereas, when land is thoroughly drained, it can be ploughed at any season with advantage; it is easily managed and kept clean at a moderate exnense; every exertion of good busbandry is attended with success; it suffers less from the inclemency of the seasons; the produce is generally ample; the quality of the grain is excellent; and the farmer will thrive, where his predecessor, cultivating a wet and undrained soil, was impoverished, or perhaps totally ruined.
- 2. Grass Land The beneficial effects of draining on grass land are also very great. Rushes and other aquatic plants soon disappear; the finer grasses rise in abundance; the pastures maintain a greater number of cattle and sheep; the stock becomes svperior in size and quality, and less subject to disease; that destructive malady, the rot, so fatal to sheep, is prevented; and if the land be mown, the hay produced is so much improved in quality, as to be doubly valuable.
- 3. Woods and Plantations.—Draining is likewise an improvement of the most essential consequence to plantations, where they do not consist of aquatic trees. Land, intended for planting forest trees, if wet, particularly requires draining; for the roots of trees, penetrating deeper than those of any other plants, the necessity of removing the under, as well as the surface water, is evident. Where this has been attended to, the plantations thrive, and the trees grow to a considerable size, much faster than can otherwise be expected.
- 4. Improvement of Wastes .- The improvement of wet moors, must be preceded by draining, stagnaut water being injurious to all the valuable classes of plants ,-care in particular should be taken to render the land dry, before the application of lime, dung, or compost, otherwise the attempt will be ineffectual. At present, commons lying waste, are, in respect of drainage, in a most wretched state. The soil, in the first instance, absorbs as much water as it can contain, and the surplus water remains on the surface in a stagmant state. highly injurious to the healthiness of the neighborhood.
- 5. Melloration of Climate -By the removal of st gnant water, and the prevention of noxious exhalations, the climate is rendered more healthy and genial, both to animal and vegetable life. Indeed, since the introduction of draining into this country, agues, and other similar distempers, occasioned by the humidity of the soil, and the consequent impurity of the atmosphere, have been prevented, in a great measure, and the general health of the inhabitants

<sup>\*</sup> In the year 1764, Elkington began to drain some fields on his farm of Princethorpe, which were so extremely wet, that it occasioned the rotting of several hundred of his sheep. He had dug a trench for that purpose about four or five feet deep, which did not, however, reach the principal body of subjecent water, from which the evil areas. By accident, while he was deliberating what was to be done, a servant was passing with an iron erow or bar, for fixing sheep hurdles in an adjoining part of the farm. Having a suspicion that his drain was not deep enough, and desirous to know what sort of strata lay under it, he took the iron bar, and forced it down about four feet below the bottom of the trench. On pulling it out, to his astoni-hment, a great quantity of water burst up through the hole thus made, and rau along the drain. This led him to the knowledge, that wetness may often be produced by water confined farther below the surface of the ground, than it was possible for the usual depth of drains to reach, and that an augur would be an useful instrument to apply in such cases. From his success in this as well as other modes of draining, and the readiness with which he communicated the principles on which his operations were conducted, to the Board of Agriculture, the Brotish parliament granted hima reward of one thousand pounds. He taught his art to Mr. Johnstone, who has drawn p a valuable treatise on the subject, from which much assistance has been derived in preparing this section.

Kidney at Much water is discharge.

A principal crop of kid by spout, land, through the nather than the first week of this coarse herbage which it carries; about the middle, and important circumstance, in an Any of the carries and important circumstance, in an orream-element recorded, that while the air immediately the carries wet soil, was only 57° of Pahrenheit, the dry part of the same field, and of similar soil, was about 100°.

6 Miscell meons advantages.—The drainage of one tract of land, may likewise furnish water by which the accommodation of another may be promoted for various useful purposes; as, for irrigation: for mills, and other machinery; for supplying houses, pouds, enclosures, canals, or artificial navigations. By peculiar modes of applying the arts of draining also, the quantity of water found in mines and quaries, may be diminished, either by cutting off the resources above, or by letting down that which often impedes their working, into a porous stratum below

On the whole, there is no means by which the value of land can be advanced, or from which, when usefully applied, so many advantages can be derived, at a moderate expense, as that of draining. The owner is benefited by an ine ease of rent; the occupier by that of produce; and the public, by being thus supplied with greater quantities of the most essential commodities, and by having a source of useful employment furnished to the laboring classes of the community. Unfortunately, both in England and Scatland, the greater part of the countries stand more in need of draining than of manuring; and there are very few districts where a knowl dge of this essential means of improvement, is so general or so perfect, as it ought to be."

\* there is, probably, no agricultural process, which has been the subject of more injudicious remarks among the people of this country, than that of draining. An undue importance has been attached to it on the one hand, while he importance at all has been given to it on the other In a country like America, where labor is searce and dear, and lands are plenty and comparatively chemp, the truth would seem to be between these ex remes. Labor with us is a given quantity, and very limited, too, in its amount. The great question among us, ought, therefore, to be, how this given quantity of labor can be most economically and profitable employed. If the amount of labor at our command, will afford as a greater return of profit, if expended on our dry, than it would on our wet lands, then certainly every principle of econ omy would require us to put it on the former, rather than the latter. If the return would be equal, then other circumstances besides mere profit, must determine us what course to take. Now it is an unquestionable fact, that we have not a sufficiency of labor to cultivate our dry lands to the greatest advantage; and it is another unquestionable fact, that the same expense, generally speaking, put upon our dry, or up lands, will afford a greater return of profit, than if put upon our wellands. If so. the conclusion is arresistible, that we ought, with our present supply of labor, to cultivate our dry lands, to the neglect of our wet, rather than our wet lands to the neglect of our dry; nor is the conclusion less irresistible, that we cannot cultivate our wet lands, unless we do, at the same time, neglect our dry lands.

Although the question of draining, on an extensive scale, would thus appear to be conclusively settled, it by no means follows, that draining can in no case be attempted with advantage. It may often happen, and actually does happen, that the situation and other circumstances of a piece of low, wet ground, are such as would justify an attempt to drain it, even on a most rigid adherence to the principles just laid down. It may be in the vicinity of a large town, where the value of land is so great, that the expense of draining would be amply reimbursed.—It may be situated near one's house, or barn, where the comparative value of land is much enhanced by that particular fact, and the land stould, if reclaimed, be of more advantage to the proprietor, than other land pur-

chased and improved with the same cost. It may be so situated as to be not only useless, but a nursance : the removal of which might be necessary to the due cultivation of adjoining la 4s, or the profitable enjoyment of other. privileges. But the making of such lands more producive, is not always the only motive which would justify he draining of them. A regard to health, mere convenience, and decent appearance, will sometimes require that the process he undertaken. As it respects the first. if it do but clearly appear, that the draining of such lands will contribute to its proservation, there surely can be no question as to the expediency of the measures. As it respects convenience, of that every one must be his own judge, whether the convenience will equal the expense in a particular case or not. All that needs to be here said of that is, cases do often occur in which draining is of very great importance in that respect. With regard to decency of appearance, it may be observed, that on almost every farm of any considerable size, there are found detached pieces of wet, boggy, poachy land, inconsiderable perhaps in extent, but which are an incumbrance in the way of improving the adjoining land, and greatly distignre the general appearance of the farm It may be asked here, what if the farm is disfigured; is appearance profit? It sometimes certainly is; it is always worth something! and, though like other things of value, it may be purchased at too dear a rate, it does not follow that it is alw mys so acquired. One thing is clear, account for it as we will, a slovenly farmer is seldom a thrifty rne, and a nice, neat, and tidy farmer is seldom an un thrifty one.

Let it be taken, then, for granted, that draining, on a limited scale, may be attempted to advantage in this country: the question occurs, what is the best mode of olong it? The author of the Code of Agriculture, has treated of two kinds of drains, the open and the covered. It is believed, that in this country, a here the expense of making them would be so great, and where land is so plenty, the saving of ground by means of covering the drains, cannot, in general practice, be any object. Nor does it appear that any advantage is derived from such drains, on account of their accomplishing the main object more effectually. No further iconarks, therefore, will here be made respecting drains of that de-cription; but what is said, will be confined, to open drains, as it respects their size, and the manner of making them.

Our drains are almost universally made both too narrow and too shallow. By being narrow, feosis and the treading of cattle, soon fill them up, and the expence of making them is thus thrown an ay. This evil is increased by leaving the earth, which is thrown out in making them, on their sides. This earth, by lying near the margin of the drain, causes that side on which it is placed, to fall in the sooner, and then follows it itself. In this way all the earth which was taken out, is replaced, and the land reduced to its original state. If the drain is mall, a moderate quantity of earth, grass, or other matter easily clogs it, and obstructs the passage of the water. Whereas, if it be large, exactly the reverse takes place. If the drain is wide, and the earth taken from it, is removed to a distance, neither eattle nor frost can fill it up; but in spite of the trampling of the one, and the heaving of the other, a hollow must still remain.

But drains ought to be deep, as well as wide—Resides the increase of capacity which additional depth gives them, there are other advantages resulting from the same source. Not only is the under stratum of water, if there be one, in that case carried off, but more of the surface water, even where that is the sole cause of wetness, is removed by a deep, then by a shallow drain. A drain both wide and deep, even in a piece of ground where there is no outlet for the water to pass off, may oftentines leave the surface dry, and that too, where there is no perforation made into a dry statum beneath.

In the first place, let a a represent the surface of a wet tract of ground, which it is proposed to drain. Suppose that there is an outlet for the water to pass through, down some declivity, and that the earth is completely saturated with water. Let A, represent a transverse section of a drain, cut in this piece of ground By means of this diain, we will suppose that the upper stratum of earth will be left dry, down to b, and that the water rises in the drain no higher than e. Now if the drain will be cut deeper still, say down to d, it is evident that the water will not then rise so high in the drain as before; that is, while the general wetness of the land remains the same. Let it rise to f. It is evident from hare inspection, that now, since the water in the whole drain, a, e, f, d, is down to f. a greater depth of earth from the surface downward, say to c. must be left dry, than when the water stood ate. Thus far w have supposed that the water in the drain runs off through some outlet. But suppose that there is no outlet, and that a piece of we' poachy land, not covered with standing water, is surrounded by other land higher than itself.

Let a, be a drain cut in it. As soon as the earth which filled the space now occupied by the drain is removed, the water will coze into it from the adjoining strate of earth, a, b, c; and as the water has now a greater space to fill, it must, of course, sink below the surface a, and leave a portion of it dry. The more the capacity of the drain is increased, the more this effect will take place. If the drain is out down into a hard stratum of earth, not pervious to water the effect will be greater still, because in that case no water onzes from the sides of this stratum to help fill the drain, but the drain is filled only by the water which hes above such stratum. We often meet with land of the last description, wet and poachy, but on which no water ever rises above the surface, unless in peculiarly wet seasons. A drain cut wide and deep, in such land, might sometimes answer a good purpose, on the principles last mentioned. If the earth taken from the drain should be spread upon the land, the latter would thereby be raised, and perhaps otherwise improved. The loss of land which the drain would occasion, would be more than made up by the superior quality which the remainder would acquire.

The most expeditious, effectual, and economical mode of making a drain, would undoubtedly be to use oxen. and a scomer, or ox-shovel, as it is sometimes called; an instrument well known in this country, in the making of roads. In some cases this mode might not answer, as in very miry grounds, and lands just cleared of timber. But where lands are very miry, if the process is begun at the outlet of the water, and there indeed it ought always to be begun, the next adjoining portion will generally he made so dry as to allow being trod upon in a proper season; and in this way a drain may, by degrees, be carried on towards the centre In nineteen cases out of twenty, drains may probably be effected in this mode. Where the ground will admit of it, two men, a boy, and two yoke of oxen, will accomplish more business of this sort in a day, than half a dozen men in the same time, with only spades and shovels. Whenever the labor of cattle can be substituted, in this country, for human labor, policy requires it to be done. Such a substitution is certainly practicable in the present case and merits consideration. The surface of wet and miry lands is usually full of inequalties; if a scraper is employed in draining them, the earth taken from the drain is easily landed in any hollow spot which needs to be filled ; and f there are no such hollows, or they have already been filled, the earth may be spread over the surface in such a manner as to do the most good. If the earth is not wanted for other purposes, it is recommended to drop and spread it, if practicable, in such a manner as to leave the general surface of the land sloping towards the drain, that the water may the more readily incline towards it and pass off. At some distance below the surface in peat grounds, there is usually found a hard stratum of earth, called in the common language of our farmers, hard-pun. This hard-pan, if ploughed into, seraped out and spread on the surface would greatly improve the texture of such soils. This furnishes another argument in favor of using a scraper in draining, for in no other way can the upper earth taken out of the drains be so cheaply removed and put on the adjoining grounds : nor in any other way can the hard-pan be so easily broken up and carried off, por in any other way, oftentimes, can suitable earth be so well obtained for the purpose of spreading it over the surface with a view to improve the texture of the soil. If the object be to pile the earth from the drains into heaps accomplished by means of the scraper.

When peat-ground are drained, as a general rule, is will be found best, to keep them for a considerable time afterwards in pasture. If well pastured, the coarse nat ural grasses are kept back, and better ones take their place. White clover, in particular, seems to delight in such soils, when treated in this manner. But another important advantage is derived from pasturing trampling of the eartle serves to destroy the bogs which usually deform such grounds, and to give consistence and compactness to the soil. This last is a very important consideration for one of the greatest defects of where the soil consists almost entirely of peaty matter, with little or no mixture of real earth, and extends to a considerable depth, it ought seldom or never to be ploughed for the purpose of tillage It is labour and expense absolutely thrown away, to attempt the tillage of such a soil, until a portion of learn or other earth has been incorporated with it. It is of little value even for pasture, until the process of draining it and the treading of the animals kept on it, have increased its compactness: then indeed it becomes, if sufficiently dry, of real value, and no kind of land, perhaps will yield to it in productiveness of summer feed But ploughing alone undoes what has been thus gained, and increases, rather than diminishes, its natural porosity Such lands may be made capable of tillage by the addition of earthly matter, and the more compact that matter the better. Yet after all expense of carting such earthly matter, especially, from a distance, will be so great as will seldom justify a resort to this mode of improvement, in the present situation of this country. The time may arrive when it may be done with profit; and in particular cases, it may be attempted now; but as a general rule, it will be found for a good while to come, that to pasture is the best mode of treating our peat lands, where the peat is deeper than the reach of the plough. [It may sometimes answer to mow them.] Further reasons might be given for this opinion; but this is not the place for a minute inquiry into the subject. Although it may not be proper to bring lands of this discription into tillage it may nevertheless, he sometimes advantageous to drain them with a view to pasture solely. Such pastures are often very productive; cattle are fond of feeding on the grasses which they produce, and will often give them when the latter are of the best artificial kinds.—. Im. Ed

Upon the advantages of propagating from the roots of old ungrafted Fruit Trees. By . Andrew Knight, Esq F. R S &c. President of the London Horticultural Society.

The progressive influence of debility and decay, upon varieties of old fruit trees, is now so generally admitted, that it is wholly unnecessary to advance facts or arguments to prove it. The general law of nature appears to be, that no living organized being shall exist beyond a limited term of years; and that law must be obeyed. It is, nevertheless, in the power of man, to extend the lives of individual vegetahle beings for beyond the period assigned by nature; and parts of the same annual plant may be preserved through many years, perhaps through ages, though it cannot be rendered immortal.

I have quoted in a former communication, the statement of olumella, that cuttings from bearing branches of the vine did not afford durable trees; and this fact appears to have been known at an earlier period; for Virgil, whose practical knowledge of planting and grafting, was probably very limited, and who therefore, may be supposed to give the opinion of some previous writer, has directed the planter not to choose cuttings from the upper branches of trees;

"Neve flagella " Summa pete aut summa destringe ex arbore plantas. Georg lib. ii. 299

As the roots of trees clon ate, hie the branches, by parts annually added to their previous extremities, it appears probable, that the powers of life would be-

with a view to compacts, this purpose is completely come expended as soon in the points of the roots, as in the bearing branches. Experience, however, warrants a different conclusion.

I obtained plants, from some detached parts of the extremities of the roots of old ungrafted pear and apple trees, and as soon as these were large enough to afford grafts, I selected other grafts of similar s zo from the bearing branches of the same trees, and some of each were inserted in similar stalles, and in several instances, two in the same farge stalk; and whenever inserted, the grafted which had been taken from the bearing branches, proved, by no means, able to contend with their more hardy, vigorous rivals. The latter produced thorns like those of young seeding trees; and although other circumstances lead me to believe, that trees raised from roots in the manner above mentioned, will not live as long as seedling plants; I am nevertheless confident. that they will live very long, and afford much more hardy and productive trees than can possibly be obtained from the bearing branches. Similar experiments, with the same results, were made with grafts of a plum tree

Duhamel has stated the original tree of the Chaumontelle pear, to have been alive and in health, later than the middle of the last century; and as the tree was not then very old, for a pear tree, it is probably still living. If plants could be obtained from its roots they would prove a valuable acquisition to the gardeners of France, and one of still more value to the English gardeners; for we possess no winter pear of so much merit and long duration, which succeeds so well without the protection of a wall.

I am not by any means satisfied that the original tree of the Ribstone Pippin, is not now growing in England; and that the seed from which the first tree sprang, and not the tree itself, came from France; for I have never seen any plate of it, nor description of any apple very like it, in any foreign catalogue. s cutting from the root of the supposed original tree, might I conclude, readily be obtained, and no effort to preserve so valuable a variety ought to be omitted.

oe's Golden-drop Plum, if it be an English seedling, is most amply entitled to the same care; and the possessor of the asserted original tree, may prove his claim to the honor of having raised it (which I have here questioned) by raising trees of the same variety from its roots.

No further care or trouble is necessary to insure success, than to obtain cuttings of the root in the autumn, [November] about a foot long, and not less than a quarter of an inch in diameter. These should be planted so deeply, that not more than half an inch in length of each cutting should appear above the soil. I have usually placed the cuttings under an east or west wall, and have perfectly succeeded with those of the pear, the apple, the plum, and cherry, the only kinds of fruit trees which I have hitherto subjected to such experiments.

to my mind some scraps TRANSLATED FROIT

"sumere nati. Process for extracting Spirit fregenties tised in Austria.

The following operation is practised with succe particular province establishment, near Vienna, to Austria. As it is easy, lucrative, and within the reach of all cultivators, we think it useful to give, here, the exact

Take one hundred pounds of potatoes, well washed, cooked by steam, and mashed under a roller; then take four pounds of malted barley, dried and ground in a mill. The process is commenced by diluting the malt in a little luke warm water; which is then thrown into the tub, or vessel, for fermentation; twenty-five pounds, or pints, of boiling water are then poured in on the malt, all which is to be well stirred. The mashed potatoes are then added, and the whole is stirred with paddles of wood, until the several particles of each ingredient appear equally dispersed through the whole mass.

Six or eight ounces of brewer's yeast arothen diluted in about 225 pounds of water, more or less heated, so that the whole mass shall assume the temperature of 12 to 15 degrees of Reaumur to all which is then added, from six to eight ounces of brandy.

The fermentation tub ought to be placed in a cellar. or in any close place whatever, where the temperature may be kept, by means of a stone, at 15 or 18 degreesthe mixture is then to be left tranquil. It is necessary, that the malt tub be sufficiently large, to admit of its contents rising at least six or seven inches, without overflowing. If, in spite of this precantion, it should overflow, it will be necessary to take out a little, which may be put back when the mass begins to subside. The tub is then re-covered, and the fermentation is to finish quietly and generally lasts five or six days. When the fermentation has terminated, may be known by this: when the tub is uncovered, nothing is seen but a clear liquid, the potatoes having fallen to the bottom. It is then drawn off and distilled.

The distillation is made by steam. (so fuit a la vapeur,) with a still of wood, or of copper, constructed on the Rumford plan. The produce of the first distillation is redistilled. When the fermentation has been good, one may expect to obtain, from a hundred weight of potatoes, five or six pints of brandy, the strength of 20 degrees of the areometer, (an instrument to measure the strength of liquor.) This spirit preserved during some months, in barrels, or new pipes, and then slightly (carantlee) colored with burnt sugar, as French brandy is, well sustain a competition with brandy made of wine, of common quality. It has a natural taste without any burnt

The proprietor of this distillery, prepares and distills one thousand pounds of potatoes per day, in two operations, of five hundred pounds each, which gives him about sixty pints of good brandy. One may judge from that experiment, what would result from it in operation through the whole year.

Th residue of the distillation, is employed in the feeding of cattle, which drink it with pleasure diluted : and it is found to augment the milk of cows. Sixty sheep consume about five pints of boullie each, per day-half in the morning, and the other half in the evening,

The quantity of malt necessary for the fermentation is ground every week.

### COUNTERFEIT NOTES.

The public are cautioned against an alteration which has lately been made in one dollar notes of the Hagerstown Bank, which are changed from one to ten dollars. Those conversant with the vignettes of the one dollar notes, will of course easily detect the imposition, as it differs entirely from that of the tens. For those who are ignorant of the different devices of the two notes, a few remarks will be necessary-The denomination of he altered untes is at each of the note both in figires, thus, 10-On the genuine tens, the figure ten is on the left side of the note, and the letter X on the righthe mark of the plate on the 1, are in small etters eiher A or B, on the 10's the same letters A or B are twice as large - the word ten, both in the margin and body in the aftered notes, is done with a pen, and on the margin the words "TEN DOLLYLS," are much convided, [Md. Herald.

it is stated in the London papers, that an infusion of authocantum odoration, or early vernal sweet scented meadow-grass, from old meadows sell fed and mower. and well got up, has been proved to be more agreeable and nutritious than any that is to be made from any two that can be produced from China. This tea is od-riferous and sacharine; it is said to be notritious exhibitating, and, instead of relaxing, to give a tone to the tibres of the stomach; to create appetite, and promote digestion The gentleman who is said to have made the discovery has been called by his female friends, " Emperor of Hay ter." A species of grass, found in North aroine, has long been used as a substitute for him tea, producing an excellent and wholesome beverage, to which the and the letters at the end of dollars, are partie narly so. inhabitants are very partial.

al American Gardner.

A principal crop of Kid Honth of May. in the first week of this

about the middle an

Any of the porting Plents for Seed.

cream-cc super to the stems of stalks of such plants, as were for seed. The onions, lecks, berts, currots, habbages, caulitlowers, and many others, whose stalks run up to a great height, and if they are not properly secured, in due time, the winds and heavy rains will break them down. This may be done by driving stakes into the ground, and fastening poles all round, or in any mode judged most suitable.

Ohra.

The first week in this month will answer to sow a full crop of Okra, as the seeds will now vegetate freely, and grow rapidly.

Cardeens.

The cardoons, sown in March and April, ought now to be thinned to about four or five inches distance, in order that the plants which remain, may have room to grow, and gather sufficient strength, by next month, when they should be planted, where they are to remain, for landing up, to blanch.

Kieinus, Palmus Christi, or Castor Bean.

This plant may be raised to great perfection in the southern states, and to some advantage also in the middie states The soil should be richly manured, well pulverized with the hoe, or plough and harrow. The ground should be sufficiently warmed by the sun, before they are planted. The time of planting Indian corn, will answer for a general rule for these seeds, that is, from the first to the fifteenth of this month, in the middle states; but the warm season is scarcely long enough to bring them to perfection, so as to allow of them as a field crop. The farrows should be about six feet apart, each way, and two or three seeds planted at the intersections; two shovels of rotten manure should be thrown into the bottom, and afterwards covered about three inches with earth; before dropping the seed thereon, cover them about an inch or two with pulverized good mould, keep them elem of words, with the plough, draw the earth three or four inches high about their stems, carefully take all the suckers from them, and in the southern states they will produce abundantly. They may be gathered as they ripen, and when the outer coat is dry, the bean may be taken out, and kept for making oil. Destroying Weeds.

The gardener cannot be too strongly reminded of the recessity of destroying weeds whilst young. The ut rand attention must now be given to destroy them, throughout the whole garden, but more especially among the young rising crops. It is now the most important nork for him to be engaged in. The hoe should be used coluren all the rows and drills, and the weeds which

we close to the plants pulled up by the hand.

The onions, carrots, leeks, and all other close and lew growing crops, should be always kept free from weeds, from the moment they appear above ground, till grown to their full size. For those sown in drills, a small hoe or a suitable rake, with several short feeth, will answer well, but where these cannot be applied, hand-weeding must be practised.

Watering.

Watering in dry weather, is very necessary, not only to the larger growth of plants finally transplanted, such as caldinges, cauliflowers, lettuce, celery, &c. but more particularly to the newly transplanted crops, whether young seedlings, or such as have been pricked out into hen beds. A plentiful watering should be given to each plant immediately after planting out, and repeated occasionally, mutil all have taken root and begin to grow.

Water should generally be given late in the afternoon, that the plants may have as much benefit from it as possible I efore it is exhaled by the heat of the succeeding day : but when it cannot be done in the evening, it may be given, though more sparingly, in the morning

Well and Equilier Trees.

In the early part of this mouth, examine these trees, and where a sin erabundance of innuccessary shoots aplear, rub them on carefully, but do not destroy any fruit buds.

Protect Cherries from Birds.

This may be done as soon as the cherries begin to ripen, by hanging nets over the capaliers.

Thinning of Fruit.

Apricots, peaches and nectarines, in favorable seasons, sometimes set abundance of fruit, more than the trees can properly nourish; therefore thin them carefully, leaving only a moderate supply.

Cleaning the Fruit Tree Borders, &c.

These borders should be kept perfectly free from weeds, by hocing, &e. and all insects must be destroyed as much as possible. A small water engine, to throw water against such trees, as are infested with insects, would have a good effect, and also refresh the trees in

Strawberry Plants will now be coming into full bearing, and if watered between the rows occasionally, the fruit will be larger and more abundant.

General Observations.

Weeds should be destroyed at this season, in all parts of the nursery, and the hoe must be applied whenever you can use it.

Be careful to keep the seed-beds of all young trees and shrubs, perfectly clear from weeds, which must always he done by a hoe or spade, and hand weeding the

Watering the seed-beds .- Should the weather now prove dry, all the seed beds, and also the evergreens, such as pines and firs, &c. ought to be frequently watered, and care taken, that it is not done too hastily, lest it should wash the earth from the young roots, and expose them too much to the sun.

New plantations of the more curious and valuable sorts of ereigneens and flowering shrabs, should be watered; if occasionally given to the leaves and branches, as well as to the roots, it will wash off any dirt which they may have contracted.

Such plants as you have in pots, should be treated as directed for those of the green house department.

Propagating Evergreens, &c. by Layers. Begin to propagate, about the latter end of this month, evergreens and other shrubs, by layers; take the young shoots of the present year, as they do not always sueceed well from those of the old wood.

When the young shoots are from eight to ten or twelve inches long, lay them into the earth, from two to six inches deep, according to their size; fasten them well with hooked pegs, and draw the earth over the parts laid; when done, water them moderately, and repeat it occasionally; this will keep the earth moist, and encourage their shooting. Many kinds will be rooted by October, and may then be taken off and removed.

Shading and sifting Earth over the Scedlings. All the slow growing and tender seedlings, especially the evergreens, should, after having newly come up, he shaded occasionally from the mid-day sun; then sift some fine light earth over them, as much as will cover their stems up to the seed leaves.

Seedlings in Pots or Tubs.

The pots and the tubs of the more rare and delicate seedling plants, should now be kept constantly in the shade, and a little earth sifted over them, as directed for other seedlings, will be of service.

#### COMMUNICATIONS.

To the Editor of the American Farmer.

Sir-Observing in your paper of the 15th inst. a piece signed " .1 Spinster," respecting the cleansing of poultry-houses from vermin or chicken-lice, for which information I think the public as well as myself, are much indebted to her; and, to repay her for the gratifude which I feel, I will inform her, as a good-house wife, how she can keep her beds and bed rooms clear of vermin, vulgarly called chinch bugs, with very trifling exnense or labor.

Make a decoction of sassafras bark, or root, not so strong as to stain the furniture, and scald your bed-teads and the wainscoting of your rooms, once a year, and t will engage a chinch-bug will never enter it. This I will engage a chinch-hug will never enter it. know from experience. AN OLD MAN.

Calvert County, 30th April, 1819.

Overise :- by the Editor. Since this decoction is found to be so offensive to the vermin of various kinds. may it not be presumed, that it would be found equally useful and effective in destroying, or driving off, the fly which infe-to tobacco beds at this season, and prove-5. destructive to the plant. We hope some planter wittry an experiment so easily made, and whereby, if it prove effectual, the greatest impediments to raising

plants will be removed. We have been told, that lime has been used for this purpose, with success, by Benjamin Mead, of Calvert County, and we have it from good authority, that keeping the beds thinly covered over, until this time, with leafless brush wood, will keep off the fly. It would seem, that they cannot endure the shade, and that clear sun heat is necessary to their existence. But a decoction of sassafras roots, with the birk on, is so easily made and applied with a watering pot, that we repeat the hope, that its efficacy may be tested and made known.

#### TO THE EDITOR OF THE AMERICAN FARMER.

SIR-I have thought, that an occasional essay, upon general morality, vindicating the Providence of our Almighty Father, might not merely be consistent with the general plan of your paper, but acceptable to your readers. For though Agriculture, or rather its promotion, appears to be the prominent object of your pursuit, yet I have observed some well written articles upon other subjects, indicative of an intention not altogether to exclude that variety of speculation, so necessary to the gratification of the taste of every class of readers.

Mr. Cobbett, I think, has somewhere observed, very truly, that it is in Agricultural pursuits, where a man makes the most direct and emphatic appeal to the Parent of all good for a blessing upon his exertions Who so likely, then, to be influenced, by a consideration of his Providence-who so likely to be brought to a constant reflection of their immediate dependence on him, as they, who, in pursuit of their regular vocation, are in the habit of making these direct appeals; and, who are so richly rewarded for their laborious co-operation with the Parent of Nature?

Man earries with him the crutch of dependence from the cradle to the grave; both individually and collectively, as he recedes from the cultivation of the soil, he multiplies the occasions for its use, and increases the number of his patrons; his dependence on Deity becomes indirect; and his success in life, on easualties and contingencies, often, that be dare not court the favor of lleaven to bring about. But the tiller of the ground, who earns his bread by the sweat of his brow; who plants and waters, may, with religious confidence, partake of the fruits of his earnings-and in every process of vegetation, from the seed to the full ear, sees causes of admiration and of thankfulness to the bestower.

That the farmer is the most independent, those of evcry other pursuit admit; that he is the most useful to all, is equally certain; and for these reasons he appears to be in possession of peculiar advantages-and if he has a mind and a disposition to profit, spiritually, from his vocation, few men have so great or so frequent opportunities. Doctor Young has said, that An underout astronomer is mad. The line is as applicable to the farmer, as to the astronomer; for the uniform and regular returns seasonably bestowed upon him, in reward for his labours, furnish a constant argument in favour of the goodness of his Creator, and the mystery of vegetation of his unbounded wisdom. His infinity is traced in the multiplication and diversity of his productions-and his wisdom again, in their peculiar fitness-nay, this fitness of things bespeak his constant presence.

Thave said, if the farmer chooses to profit spiritually, from his vocation-if he has a mind to be operated upon -if he inclines to "look through nature up to nature's God," every blade of grass affords a medium, and every kernel of gram a subject of devout speculation-fortifying to his faith and confidence in Doity.

CINCINNATUS.

#### TO MAKE POMITUM.

We doubt the policy, these " hard times," of givin receipts for things superfluous in themselves, even though custom should have made them necessary; yet, to shew our partiality for every thing coming from the hands of our fair readers, we are induced to give the following receipt for making populatum. It comes from a young lady, who is herself all ewectness, and needs not he "foreign a d of ornament."

Take the marrow of any animal hones, and having crained it, then perfume it with sweet scented oil, Ruscan or Antique, and it is fit for use; and is said to have he power of quickening the growth of the hair, perhaps

communicating a softness to the skin, and opening its pores about the roots of the hair.

### BALTIMORE: FRIDAY, MAY 7, 1819.

#### LIVE STOCK.

domestic quadrupeds.

The rusing of the hog, may be advantageously made can he know the nett profiter loss, of any thing he contoconstitute a part of a well regulated system in almost all of our agricultural operations, as well as in several other establishments, not immediately connected with the cultivation of land. In the economical management of hog, may be had, which, being pigged in April or May, in the spring tide of vegetation, will weigh as much in of dairies and distilleries for example, a certain proportion of swine may be considered indispensable. These establishments afford great quantities of sour milk slops, and other refuse matter, which could, in no other way, expense to be gained by the acquisition of such a stock be converted into any thing useful; yet they are fund to it is apparent, that the rapid and early fattening, and be very nutritious to hogs, and when mixed with small recowth, of the hogs here spoken of, must be the effect of

and preserving the meat; for, although it may be thought tions will be indulged, except that of always giving, in that the subject is already well understood, in all these such cases, a preference to his patrons. points of view, it may be affirmed, that few of us are so wise, and but few things so well understood, but that some accession of knowledge may be gained by a comparison of different practices and customs, in different parts of the country; our present object, however, is merely to spread before our Maryland and southern readers, the following notice of ten logs, fattened and killed lately in Boston. Let it be contrasted with any thing of the same kind in this quarter. It will be seen, that of the ten hogs, there was but one that did not weigh a pound for every day it had lived, and many of them considered the contrast of the contra siderably more than that.

gression, they must have weighted 150 pounds when they pumerous spectators when alive, who not only expressed their extreme famess, and fine killed in Maryland for pork or bacon, do not average 150 form; but at the cleanliness and economy with which pounds each, and that their average age is at least six they provide a their extreme fames, and fine form; but at the cleanliness and economy with which they were reared. It is understood that they were sold the control of the least doubt that many control of the least doubt that the le teen months; and we have not the least doubt, that many for \$151-56. farmers of this state, some of whom may smile at the particularity of these observations, on a matter which they may suppose requires no elucidation—we say, we have no doubt, that if many of them would only take the

any their hogs, taking into the account the labor they occasion, as well as the actual value of the food they consume, they would find that in this account, to use a vulgar saying, they do not "save their bacon,"-that, like the Indian's gun, " it costs more than it comes to ;" and this ich handed management will be found, on examination, THE HOG.—The prolific nature of the Hog, its rapid to consist in an utter disregard of the qualities of their growth, the excellence of its flesh as food for man, and breeding stock, and their wasteful and otterly inconsid-the small proportion of offal which it throws off when exact manner of feeding. And here let us repeat, killed and monaged with skilful economy, have justly what probably we shall reiterate a thousand times over, obtained for this animal, an eminent rank amongst our the farmer should habituate himself to making nice domestic quadrupeds.

be very nutritious to hogs, and when mixed with small crowth, of the hogs here spoken of, must be the effect of portions of more substantial foed, are quite adequate some possibilitity in their bread or in their treatment; for to sustain and bring them on to the most desirable size every one knows, that the cold climate of Boston, is not and fatness. In England there are reckoned, not less than twenty southern latitudes;—whether, then it results from supe-different breeds of hogs, which are selected, according riority of the one or the other, it is equally desirable to as they are adapted by their peculiar characteristicks to be known. Under this impression, and with a desire to particular districts, and the food on which it is proposed manifest the earnestness with which he has undertaken, to rear them. But we do not see any mention of the as far as is within his limited means, to aid in all endea-Buffeld breed, though our researches, from want of lei-vors to improve the agricultural prospects of his counsure, have been limited.

In some future number, we shall devote to this subject measures to procure the breed of those extraordinary horse extended consideration. We shall treat of the hogs. They will be distributed amongst his friends in natural history of the hog, f of the various breeds; the the country, at whatever price they cost; the only object best course of feeding, and the several modes of curing being to disseminate the breed, no selfish considera-

#### BOSTON PRODUCE.

There were lately slaughtered in the town of Boston,

gnea as	Ionows :—		
1	- 394	6	369
2	* 392	7	369
3	891	8	368
4	390	9	365
5	369	10	356

What must, however, most particularly strike every Total, three thousand seven hundred and sixty three pounds. observer, is the great saving of food, which must attend Besides 194 lbs of registrate from the intestines. observer, is the great saving of 1000, which must are unageness 194 108 of 17 130 tal taken from the intestines, the raising of a breed of hogs, which get their growth in These animals were paged in that town and purchased, so short a period. In this part of the country, it is well when five weeks old, by Mr. Enoch Putterson, inn-keep known to be the custom to feed a hog through one winter, er, in Elm-street, and by him fattened in his stable yard, and until December in the next, before he can be made until November last, they subsisted on the wash and reto weigh 120 or 130 pounds, which is as large as, for fam-fuse of the kitchen, and since then have only consumed ily use, is thought to be desirable, Now, supposing the in-about ninety bushels of corn and meal. They were of crease of these Boston hogs to have been in regular pro-the most modern improved breed, and were viewed

#### FROM A FRIEND TO THE EDITOR. dated—Biston, April 26 1319.

Dear Sir-I have seen Mr. Patterson, who owntrouble to make a little calculation of the expense of rais-led the ten hogs mentioned in the notice you enclosed me. He says, that in April last year, he purthey lived for a day on any other kind of food, they perceived were taken from the sows when a rout five weeks † Different species of animals approximate sometimes so near-pld, and kept in a pen under cover, not more in caly, that the line of distinction can scarcely be discorned. The pacity than 200 square feet; occasionally washed, or as to be kept constantly clean, and fed with the will and the refuse bread and meat of his kitchen, a taveral until November, when a sufficiency of seal was added to keep them quiet until Jonusry; eard art with the wish of the S 41, 11, 11 a. oddry comorce, t dang ;

[keeping them clean, dry and and cool in hot weather, for . ssumere nati. where they are always in the side rentus with feeding them frequently and constantly to give them as much, and no will eat, seems to be the great mean of quies. fat growth.

The Byfield, seems to be the most approved but in this vicinity. If you wish, I will endeavor to procure a pair of this kind for you.

### Latest from South America.

The ship Sachem, arrived at New-York on the 3d inst from Beunos Ayres, whence she said on the little March. W. G. D. Wortnington, fisq of this cry, late consul at that place, arrived in this vessel, and have communicated an interesting detail of recent occurrences in South America. It was reported that the United States frigate Macedonian, arrived at Valpacaiso, about the beginning of February.

The president's message had been received at Buenus Ayres, and some remarks made upon it in the papers. They seem to attribute the non-recognition of their ladependence by the United States, to the impression which had been made this side the tropics, respecting their party dessentions. They expected, that their sovereignty would have been acknowledged in consequence of the favourable report which they anticipated from the com-missioners to the congress, but they did not appear to bear the disappointment in an improper manner.

Chili, was by the last accounts, freed from the Royalists. Sanchez, who commanded there, after being beat at Santa Fe, had retired amongst the American Indians. On the 14th Jan. Lord Cochrane sailed from Valparais, with his squadron, consisting of the Maria Isabel, (the frigate taken from the Spaniords) the San Martin, the Santero, and the Chacabuco, supposed with the intention of touching at Arica, Calleot, &c. and to capture or burn the shipping at the latter place, as they hal on board a large store of rockets, and provisions for four months. It was thought this naval expedition would give life and ascendancy to the patriots in Lima. Capt. Woster of the Lautaro, the real hero of the late naval success in Talcuhuana bay, had resigned: Lord Cochrane was fond of him, and wished him to remain. His place was filled by Capt. Grise, of the British navy, so that the marine of Chili is now wholly commanded by Englishmen. The British frigate Andromache, which was said to be taking off from Lima, about \$5,000,000 perhaps, bound to Rio Janeiro, it was suspected, would be intercepted by Lord Cockrane, under the pretence or doctrine that she was violating her neutral character.

#### THE ORDIN:1710.N.

The following was order of performance, at the ordination of Mr. Jareo Sparks, to the pastoral care of the First Independent Church of Bultimore, which took

7. Anthem; 8. Charge, by the Rev. Dr. Porter; 9. Address to the Society, by the Rev. Dr. Thayer: 10. Right hand of fellowship, by the Rev, Mr. Palfrey; 11. Concluding prayer, by the Rev. Mr. Nichols; 12. Hymn; 13. Anthem: 11. Benediction: 15. Voluntary on the organ.

### Present prices of Marylan produce, in the Bullimore market.

TOBACC	CO—Wago Patexent,		e in m	arket	•	\$ 13 a 16
	L. Shore,	,				11
1 WHEAT						1.40
f	white					1 50
OATS,						50 to 53
CORN,						55 to 60
RYE,	•					82 to 85
BEEF, per	1b.					10 to 12
VEH. IL					12	1-2 a 15 1-2
BUTTER	ξ,		•		37	1-2 to 50

The as much as they which is T then q(t) no City," we will endeavor to make  $m_{t}$ , that much depends on room for next week.

<sup>\*</sup> Among the Greeks of old, the athleta, or wrestlers at the Olympic Games, regularly underwent a course of diatectic dis- chased ten barrow pigs, from two litters, owned by cipline, previous to their public contests. The diet consisted the same person, the off-pring of a male of the By-chiefly of animal food; pork was preferred. Galen says, that field breed; and of females of a mixed breed. They a diminution of st. ength

hog is a remarkable example of this in number of teeth it re-sembles the horse, and in having only one stomach. In the position of its intestines, and the shape of its hoof, it is like the car kind: it resembles the clair footed kind, as the lion, the dog, and the out, in its propensity to eat flesh, in its numerous program. and in not chewing the cut. Swine, therefore may be said a occupy an intermed, te situation between the cornerorate were the herbeferous-ineffensive like the latter, and, in some respectravenous like the former.

Kidney Mon Books.

A principal crop of kid By the Franklin-Shakespeare's in the first week of this being Restorations and Illustration to the first week of this being Restorations and Illustration of the page o n and Mustra-orm adred Passages in Shakspeare's Plays, about the middle, an

A oy of the special BIOGRAPHY and OBITUARY for the 37. PATRICK, a National Tale of the 5th century, 3 v

COQUETRY, a novel in 3 vols. CAMIBELL, or the Scottish Probationers, a Novel ta 3 v.

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Ap. 23.

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BY LADY MORGAN-author of France, O'Donnel, & "IT was from his death words only, that I gathered h connections with the illustrious house of Macarthy this country. That he was high spirited and brave, collected from my own observation. That he was u fortunate and in exile, it was natural to suppose, for h was an Irishman and a Catholic." Two vols .- price \$ N. G. MAXWELL. I4t April 8

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Carefully Revised and Correcte	d ever	f $Thur$	sday.
ARTICLES.	PER. B	ETAIL I	RICES
SEEF, Northern mess	bb1.	17	
No 1		15	
No 2	1.,	13 50	
Sacon,	lb.	16	20
Sutter, Ferkin	1 1	\$3	40
Toffce, first quality,	1 1	27	25
'oiton,		27	
Twist, No. 5,		45	
No. 6 a 10,	1 1	46	50
No. 11 a 20,	1	53	50
No. 20 a 30, -		80	1 20
Chocolate, No. 1,	1 1	33	
No. 2,	1	28 25	
No. 3,	box	20	22
Sandles, mould,	302	15	19
dipt,	1 1		earce
Cheese, American,	iь.	10	15
Peathers,	1	60	65
Fish, cod, dry	qti	\$ 50	
herrings, Susquehannah,	bbl.	2 75	rctail
mackarel, No. 1 a 3 -	1 1	9	12
shad, trimmed, -		7 75	7 87
Clour, superfine,	1,,,	6 50	7
fine,	ppl.	5 50	6
middlings,		4 50 4 a	5 4 25
rye,	ensl:	none.	-2 40
Flaxseed, rough, cleaned,	bush	do	
Flax.	lb.	do	
elides, dryed,		12	15
Hogs lard,		12	13
Leather, soal,	1	25	3(
Molasses, Havana,	gal.	62 1-2	73
New Orleans, -		75	
sugar house,	1.	1 50	
Oil, spermaceti,	gal.	1 50	90
PORK, mess or 1st quality, -	hbl.	18 a	20 17
prime 2d do		14 a	15
cargo 3d do Plaster,	ton	5 **	1.0
ground	bbl.	1 75	· ·
Rice	lb.	6	
SPIRITS, Brandy, French, 4th pro-	of gal.	2	3
peach, 4th pro	otj	1 25	1 5
apple, 1st pro		75	1
Gin, Holland, 1st pro		1 50	l
do. 4th pro	01	50	6
do. N. England Rum, Jamaica,		1 50	1
American, 1st pro	100	75	
Whiskey, 1st pro		50	
Soap, American, white,	lb.	18	
do. brown, -	1	9	1
Sugars, Havana, white,	1	19	
brown,	1	14 50	
1041,	10-	25	
lump,	lb.	20	1
Jan, Dr. Cocs,	bu .	76	
Liverpool, ground,	ъ.	12	
Shot, all sizes,	ewt		1
TOBACCO, Virginia fat, do. middlings,	ا " آ	6 50	)
Rappahannock,	1	5	5 5
Kentucky,	1	6 50	
small twist, manufactured,	lb.	2.5	
pound do	-	50	
reas, Boliea,	,,	63	
Souchong,	lb.	75	
Hyson Skin	1	1 23	
Young Hyson,	'	1 23	1
Imperial,	. [	80	3
WOOL, Merino, clean, unwashed, -		40	1
crossed, clean, -	.	6	
e unwashed, -	- 1	3	
		1 .	71
	1	3	
	ed	3.	5

Agricultural Repository,

For Seed, Books. Implements of Husbandry. &c.

J. P. CASEY. No. z. Handler parties, joining Mr. Gabsry's Hotel, has received from P. CASEY. No. 2. Hanover Street, ad-I flerent parts of Europe, ( where they could be best pro-

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To close the saies of his I lower Roots, he will sell the following Roots at reduced prices, viz.

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EBENEZER FRENCH, PRINTER.

### 10B MOKK

EXECUTED WITH NEATNESS AT THIS OFFICE.

# AMERICAN FARMER to my mind some scraps

RURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES Co. Controlled in the control of the control

" O fortunatos nimium sua si bona norint " Jericolas." . . . . VIRG.

Vol. I.

### BALTIMORE, FRIDAY, MAY 14, 1819.

NUM. 7

### AGRICULTURE.

FROM SINCLAIR'S CODE OF AGRICULTURE.

#### ON DRAINING.

[Concluded from No. 6, page 45.]

and, 5. Backwater from ditches or ponds.

both of surface, and of under drains, to relieve them different appearances which are met with.

from surperabundant moisture.

ever, a greater quantity than is necessary. This is and the supply they furnish.

which the upper soil is incumbent.

this can be best effected, at a moderate expense, is ed, sometimes occasion this sort of mischief. to ascertain the quality of the soil, by examining its of the surrounding clay, from which it burst out, and cal, or pit drain. forms a kind of temporary spring, which renders the over the whole field, which seemed thus to be equal-railing. ly affected; but by cutting a trench, from the nearest however, side-cuts are often necessary.

4. Springs from subjectent water .- A knowledge future improvement. The mode practised in "the 4. Springs from subjucent water.—A knowledge future improvement. The mode practised in "the of the causes, and the nature of springs, arising from subjacent water, is so closely connected with the taining about thirty thousand acres of rich clay prinsiples of draining, that it is necessary to explain and loam, has been attended with such great success, it more at length. The earth is known to be com-that it may be proper to explain it, as the same sysposed of various strata, which, being in their nature tem may be applied to all tracts of clay similarly cir-To proceed with any prospect of success, in the and quality of opposite consistence, have acquired cumstanced

art of draining, it is necessary to ascertain the causes the distinguished names of porous and impervious. 1. The proprietors, by mutual consent, fixed on

metrate. As this surplus quantity is highly injurious fields, particularly such as lie in the upper side of the is a very essential part of the clay farmer's attention. to vegetation, it ought to be got rid of. Sandy soils enclosure, where the water, being confined, finds its The effects of the system of drainage, above describon a retentive bottom, also require draining, the way downwards into the open parts of the subsoil, ed, are such, as to render the land so free and tender, water, as it cannot descend lower, heing lodged in and oozes out to the surface, forming, in wet weather, that half the labor prepares the ground for the crop, the upper stratum; but there is seldom a necessity all the appearance of, and producing nearly the same —less seed is necessary,—less manure is required, to go deeper than a few inches, into the clay on effect as, a natural spring. Water conveyed in a and, as neither drought nor damp have any imperious drain, or small stream for mills, or confined in a mill-effect upon the soil, an abundant crop may be expect-3. Land springs.—In many cases, soils are dam, or pond, has often the same effect. Where ed in all common seasons. greatly intermixed, and changes of sand and clay, this happens in drains, the stagnant water should be The necessity of making these water-cuts, or furor substances that are porous and retentive, will be removed, by giving depth or declivity, to the ditch in rows, in wet fields, as soon as the plough leaves them found in the same field. Draining, in such cases, which it lies. Where a dam occasions the mischief, is strongly inculcated, as essential for the future dryis attended with more difficulty, and requires more a cut should be made on its lower side, to intercept dess and fertility of the land. The cuts ought to be

5. The sorts of Drains commonly used.

land, over which it flows, wet and unproductive. It answer the double purpose of conveying superfluous flood, may have a free passage. then, perhaps, is absorbed by another porous stratum, water, and of enclosing the fields; though they cer-dug out of the water-furrows, should be laid on one and produces similar effects. Formerly, this mischief tainly make a hazardous and inconvenient sort of a side, opposite to the rise of the land, to prevent overwas endeavored to be remidied by small drains, made fence, without the addition of a bank, a hedge, or a flowing, and all the loose mould carefully shovelled

and lowest part of the field to be drained, up to the per length, breadth, and height, and the furrows of an ness may often be removed by such means alone, bighest and most distant sand-bank, in such a direc-adequate depth, and skillfully directed, much surface-without the aid of additional drains; while the omistion, as to pass through the intermediate sand-beds, water may thus be carried off; but where the country sion of it, may not only lessen the crop, but injure the soil is radically cured. Besides these main drains is flat, and the soil peculiarly strong, a complete the soil for many years afterwards. drainage is absolutely essential, as the basis of its Water-furrowing is likewise of great advantage

which produce wetness in land, and the different ap- Sand, gravel, calcareous earths, and various kinds of the most eligible lines for cutting large drains, from pearances which, according to soil and situation, it rock, the parts of which are separated by frequent fifteen to twenty feet deep, (provincially pows,) reassumes. These causes are, 1. Surface water; 2. clinks and fissures, are denominated porous soils;—sembling small canals, for conveying the water colsolis absorbing and retaining a superabundant quantity of moisture, either from their own texture, or mixture of argillaceous and cementing particles in a small size, were next drawn, surrounding and inthe quality of their subsoils; 3. Land springs from their composition, and rocks of a solid and compact tersecting the farms, so as to serve for divisions of surface-water ; 4. Springs from subjacent water ; nature, and without fissures, are the principal strata, the different fields, the water of which they collected that resist the admission of water, and are thence and emptied into the large drain, or pow. The depth 1. Surface-water .- On clay soils, wetness is com-termed impervious. It is evident, therefore, that of these ditches was seldom less than four feet; their monly produced by surface-water. These soils are springs must originate from water falling, either in width, at top, six; and at the bottom, from one, to of different kinds, varying both in their color and the shape of rain, or dew, or the melting of snow one foot and a half. 3. Where the fields are of an texture, but they all possess, in a greater or smaller and hail, upon such porous and absorbent bodies; uniform level surface, the common furrows between degree, those adhesive qualities, which retain the water subsiding downwards, until it is the ridges, if sufficiently clear, will keep the ground drawn off by art, or exhaled by the sun and that a better forms reservoirs of considerable magnitude. Such soils therefore require the aid to the surface, the common furrows between and that the water subsiding downwards, until it is the ridges, if sufficiently clear, will keep the ground drawn off by art, or exhaled by the sun and the attention of the substructed in its passage by these impenetrable sub-dry; but, as fields are seldom without some inequalities, the last operation, after they are sown and harmonylaters. mosphere. Such soils, therefore, require the aid nitude, which afterwards burst forth in all those rowed, is, to draw a deep furrow through every hol-Thus low in the field, in such a direction, as to communisprings are formed, the strength of which must decate with the other furrows that divide the ridges, 2. Absorbing soils.—Loamy soils absorb water pend upon the extent of high ground which receives and with the ditches at the extremities of the enclosed results and with the ditches at the extremities of the enclosed results and with the ditches at the extremities of the enclosed results and with the ditches at the extremities of the enclosed results and with the ditches at the extremities of the enclosed results and with the ditches at the extremities of the enclosed results and the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities of the enclosed results are described by the extremities are described by the freely, and swell with it. They usually retain, how-land retains the rain-water, the size of the reservoirs, sures. These cross furrows, (provincially, gaws, or grips,) are opened by the plough, but widened, particularly the case, when they have a strong and 5. Back-water. - A frequent cause of wetness is cleared out, and shaped by the spade, to enable them impervious subsoil, through which no water can per the stagnation of water in the ditches that surround to discharge the water freely. To keep them clear,

skill, than where the surface and internal strata are any water that may ooze through it. Old marl-pits frequently examined, more especially after the meltthick, and regularly disposed. The means by which full of water, and cattle ponds improperly constructing of snow, to see that no impediment prevents the this can be best effected, at a moderate expense, is ed, sometimes occasion this sort of mischief. rows, ought, likewise, to be carefully attended to, afproduce. The porous soils collect reservoirs of water, which augment in times of rain, to the full level of the surrounding alay from which is based as There are four sorts of drains; 1. The open; 2 ter spring ploughing, to prevent water from ladging ter, which augment in times of rain, to the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from which is based on the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding alay from the full level of the surrounding for that purpose, the head lands should be cut through, 1. The open Drains, or Ditches.—These often where necessary, that water arising from any sudden The spit of earth out. This simple operation of water-furrowing, is In cultivated land, where the ridges are of a pro-attended with such beneficial consequences, that wet-

Kidney he cuts, or furrows, ought to A principal crop of kid A at before winter. The water in the first week of the om lodging and soaking into the about the middle, an Any of the Pron less likely to sumer from potential, cream-cc sulpart, into the grass, not being chilled by suther for seed moisture, will necessarily come forward earlier in spring.

In some districts, open drains are made of the

subjoined shape,



and turfed to the hottom, so that there is no loss of herbage. No water ever stands in these drains, and a part of a county, (the Coventry estate in Worcestershire,) that, half a century ago, was a mere morass, has now become, by means of these drains, perfectly dry, healthy for sheep, and fit for cattle. Mr. Johnstone necommends that these drains should not be ploughed with the rest of the field, but should always remain in grass, for, if loosened by the plough, the sides might be washed down, and the shape destroyed.

It is a general rule regarding open drains, with a view of giving sufficient slope and stability to their sides, that the width at top, should be three times as much as that which is necessary at the bottom, and numerous; as, small stones, which only answer for in the case of peat-mosses, or soft soils, it should be still more. In regard to the fall or declivity, it should be such as to allow the water to run off with-

injure the bottom.

In all drains, it is a rule to begin at the lowest place, and to work upwards, by which the water will ilways pass from the workman and point out the evel. This enables the labourers also to work in happen

It is much recommended to all farmers, in low and moist situations, frequently to perambulate their farms, for the purpose of examining the state of their drains, and discovering every obstruction; nor ought even the trace of the mole, crossing an open

drain, to escape their notice.

2. Covered Drains - As open drains take up a great deal of surface, covered drains are in many cases preferred. Here we shall consider,-The season for executing them; the mode of doing it; their size; whether hollow or filled; materials for filling; distance from each other; duration; the expense: the state of the ground; and, the impediments and enemies they have to encounter.

drains, because the laborers can then work with be done in a day But, in winter, labor is cheaper, conveyed.

and toen can be more easily procured

sometimes made by the plough, as being the least ny cases they have endured much longer expensive mode, and perfectly practicable, where the different dimensions must be employed. The addi-crop. tional expense is amply repaid, as the work is done more effects lly. The tends however, is often be- when the land is in grass, or in fallow gun by the plough, and harshed by the spade.

point of width, there should only be room to work unless from the softness of the soil, a greater slope is necessary. An over-width increases the quantity of materials requisite to be used in filling, which, in many situations, is an object of no small consideration. The depth should be such, as to allow a proper quantity of earth above the drain, that the materials in it, and what covers them, may not be injured by the pressure of the horses or cattle in the act of large enough, for every essential purpose. ploughing.

4. Covered drains are frequently hollow, where t'e run of water is large, or the materials good. This last is the case, when the drain is made of stones, either inserted in a triangular shape, or regularly built and covered by flags; or where common or draining bricks or pantiles are made use of. These are preferable to stone in two respects, that they can be more quickly and uniformly laid, and give less interruption to water than the ragged edges of stone. The sod, turf, or pipe drains also are not filled; nor the clay pipe drains. These, however, are better calculated for small aqueducts, for the conveyance of water, than for draining land; as, when finished, the water can have no access into them 'rom without.

5. The materials for partially filling drains are short drains, and are seldom effectual for any length of time; turf, or sods, which many recommend in preferen e t→ any other substance; wood, particularout stagnation, but not with so rapid a motion as to ly old thorns, cut into billets, which are well calculated for soft or peaty soils, that are unable to bear the weight or pressure of stones; green bushes, not in leaf, (in some situations green willow is known to have lasted for ages); black thorn, which is a favor ite material in Essex; heath or ling, which has been ber of horses or oven required to work them, ploughs coarse weather, and prevents their being interrupt- tound a durable substance; fern furze, or broom: calculated for effecting hollow-draining, are more ed by wet, so early in the season, as otherwise might 1 and where the drain is small, and better materials expensive than the spade, and never can come into cannot be had, even straw, either lonse or twisted general use. into ropes as thick as a man's leg. The durability of the materials, at the same time, is of less consequence in clayey soils, than the probability of having a sufficient opening for the water to flow through, for boards, and is drawn by four or more horses, along clay often forms an arch over these materials, capa- the bottom of a furrow made by a common plough. ble of supporting the incumbent soil, and leaving a clear passage for the water below, when they decay The materials must be covered with loose straw, the plough had before gone; which operation, besides fern, rushes, or turf, before the mould is thrown in The drains should be filled up as soon as possible af- for several years, and causes to carry with it any ter they are ready for that purpose, and by the most noxious matters in the soil. Thus, in particular cases careful of the workmen.

6. When the soil is very wet, it will be n-cessary pense is inconsiderable. to cut the small drains near each other; about six-1 The summer is a good season for executing | teen or eighteen feet distant in common soil, and from | work, of the first experiments with the mole-y-lough eight to ten feet in the more stebborn. But deep invented by Mr. Adam Scott. It was originally tried more comfort; the materials for filling can be more and large ditches must be cut around wet fields, into in the years 1795 -- 6 under the auspices of the Soeasily collected and conveyed; and more work can which the water from the smaller drains, is to be ciety of Arts in London. The addition of wheels

2 Drains intended to be ultimately covered, are drains will last for 20, 25, and 30 years, and in ma-ling from this instrument are extremely contradic-

soil has no stones in it large enough to obstruct the per acre; except in very wet soils, whe ent is someoperation. But only small drains can be made in times higher than even 60s.; but in most cases the the way; and when they must be deeper, spades of whole of the expense is repaid by the first arable ten to fourteen horses, the trampling of which must

3. The size of covered drains must be regulated field mice, the roots of trees, in particular the popby the quantity of water to be conveyed away. In lar and the ash,) and a plant which sometimes grows in them, intercepts the course of the water, by degrees weakens the current, and at last chokes up the

3 Arched drains. - The expense of arched drains. of stone or brick, prevents their being adopted, onless where the ground is very loose, or where open drains are inadmissible. Where flat stones abound, drains covered by them, may in general be made

4. Vertical, or Pit drains - Drains of this description, may on some occasions be useful. If the spot where a confined reservoir of water exists, can be ascertained, which sometimes may be done by boring with an augur, sink a pit into the place of such a size as will allow a man to work within its bounds, or about three feet in diameter, until it reaches the water meant to be brought up, which will rise as soon as the pit reaches it. The pit should then be filled with land-stones, or pebbles, and the water be conveyed by a proper drain to some adjoining ditch, and thence to the nearest stream or river.

Spoots or springs also, rising in the middle of a field, may, on some rare occasions, be led into a pit sunk through the clay, and the water may thus escape downwards, into a porous substratum.

4 The in truments employed

The in truments employed in draining, are morenumerous than is commonly imagined. The principal are-draining ploughs; the miner; the mole plough; spades of various sorts; the sod knile;

and, the augur. 1. The common plough is frequently used in draining, to open the trench; various sorts of ploughs bave likewise been invented for that special purpose, and premiums given to the inventors; but from the num-

2. In Lancashire, an instrument, called the miner. was invented by the late Mr. Eccleston. It is a ploughshare fixed in a strong beam without mould-Without turning the substratum, it penetrates into, and loosens the soil, eight or ten inches deeper than draining the land, renders the subsoil open or porous, is considered to be a useful practice, and the ex-

3 A particular account is given, in a valuable was then recommended, which has since been carried 7. When done with common skill and attention, into effect. The accounts of the advantages resulttory. It has, no doubt, been very effectual, when 8. The expense is calculated at from 20s. to 60s. well applied - It will succeed, where there is a regular s r tum of clay or stiff marl, but not in loose. nor in mixed soils. Without wheels, it requires from se extremely injurious to wet soils; but with wheels 9. The best period for making these drains, is, the team may be reduced to six horses A mechanical apporates has been invented by Mr. R. Lam-10. Hollow drams have several enemies, as moles, bers, of Risington Wick, in Gloucestershire, for

the same county, has invented another apparatus, the plough being moved forward by the revolueven poney, is sufficient for the purpose. The moleman or horses.

4. The spades used in hollow-draining, are of a peculiac construction. The upper or top drawing spade is narrow at the end, and the spade used for the lower part, or bottom tool, is almost pointed. A scoop also is used for smothing, and cleaning out the bottom of the drains, previous to the wood, straw, or other materials being put in. A breast-draining spade has also been invented, and is found useful; it is the common paring spade, with both sides turned From the unwhols me quality of the plants producun; and is driven forward by a man in the same

5. A sod-knife is useful in setting out the trenches. the workmen treading it in by the side of a line, five or six inches deep. It is more expeditious, and easier to the workman than the spade.

6. The borer, or auger, used in draining, is very similar to that employed in searching for coal, or other subterraneous minerals.

5. Modes of draining applicable to different soils and the objects to which they are applicable.

1. Clays-The breadth of ridges in a clay soil, is a subject of great con:roversy. Some maintain, that all arable land may be effectually drained, by ploughing it into ridge and furrow, narrowing the ridges, as the wetness of the soil increases; and that hollow draining is thus rendered unnecessary, except in springy soils, or peat bogs It is on the other hand contended, that in all wet soils, ridges ought never to be less than eighteen feet; and if the soil oan admit three gatherings, without baring the furrows, twenty-lour feet is the preferable breadth. The great waste of land in the furrows, where the narrow-ridged plan is carried to any extreme, (perhaps 1.7th of the whole and upwards) is a great objection to it. In the Duchy of Lymburg, they prefer having covered drains in the furrows of a strong land by which it is rendered at all times accessible to oulture, and very little groun is lost. The celebrated Arburthn it practised that system near Mitcham, in Surrey; and an intelligent Scotch farmer. (Mr. James Andrew, at Tillvlumb, near Perth.) has carried the same plan into effect, with the greatest success; he was formerly at the mercy of every season, and found none so dry, but that in a certain degree he sustained some injury; but since he has adopted the plan of a hollow-drain in every furrow, he can plough almost at any time; the seed can be put in, if there be but a single dry day; in the ordinary course of things, he can always rely upon a crop, and the soil being nearly of the same quality, and in a similar state, the crop is always equal.

2. Loams - When loans are allowed to rest, they sometimes acquire a degree of cohesion little inferi or to clay. They generally absorb water rather freely, and after retaining a proper quantity for vegetation, they allow the superfluity to run off. where there is a descent; but that operation is facilitated by small ditches, which collecting the water, opefor carrying it off.

smaller streams, much valuable land is to be met with, the improved. In many cases, such pieces of water

twelve borses; and Mr. Rogers, of Washington, in tion must be protected from the overflowings of the river by embarkments, as requires to be done with respect to the fine meadows in Derbyshire and Staftion of a long lever and axle, by which one horse, or lordshire, or the banks of the Dove but it frequently happens that by deepening the river or stream, or, plough can only become generally useful, when it in other cases, by making a new, straight, or deeper son be worked by a moderate power, whether with channel, a considerable addition may be made to the land, and the object of drainage effected. Some times the wetness arises from springs, which issue from the bottom of an adjoining high ground. With much ingenuity, Mr Edward Webbs, of Stow, in Gloucestershire, has employed water, collected by the upper drains, to drive a wheel, by which the water is raised from the lower parts, and carried away.

Upland Pastures .- The draining of upland pastures is a most important branch of the subject. ed on such pastures, where there is a superabundance of moisture, whether stagant on the surface, or confined under it, proceeds that hitherto incurable malady, the rot, and other diseases to which many thousands of valuable animals fall a sacrafice every year. In the sheep farm of the Cheviot hills, the object has in a great measure been obtained, by cutting surface-drains about one foot wide, and as much deep, in an oblique direction to the declivity of the ground. Others have been rendered dry, by the following simple process: A deep furrow is turned up, by a strong plough; the sod is cleared from earth, reduced to three inches in thickness, and thence placed in the furrow whence it was taken. The grassy side being placed uppermost, there is a hollow beneath, sufficient to discharge a considerable quantity of surface-water which readily sinks into it. The water collected from these drains, is sometimes employed in running over such parts of the ground below, as are dry and covered with heath, where it has the effect of killing that plant, and encouraging luxuriant grass.

Bogs. - The successful mode of draining bogs, as practised by Elkington, and so ably Rescribed by Johnstone, cannot be minutely detailed in this place; it may be sufficient to state the general principles upon which it depends: these are, 1. Upon discovering the main spring or source of the evil; 2. Upon taking the levels, and ascertaining their subterraneous bearings; and, 3. On making use of the auger when necessary, if the depth of the drain is not sufficient for that purpose, to reach and tap the spri gs. As an example of this it may be mentioned, that in a field near Tamworth in Stuffordshire, by boring a hole thirty feet deep, through which water issued at the rate of three hogsheads a minute, a great extent of wet land in that neighbourhood was laid dry. Indeed in several cases, the Elkingtonian system has been attended with extraordinary consequences, not only in laying land dry, in the vicinity of the drain, but also by having a material effect on springs, wells, and wet ground at a considerable distance, with which there was no apparent communi-

Lakes .-- The objects in the draining of takes are threefold 1 For the sake of the land that may be gained, when the water is removed; 2 For the mark and rich earth that may be got at the bottom; and, ?? For the purpose of obtaining a level to drain the rate like veins, and convey it to an open drain, made tracts of meadow, and marshy ground adjoining, which cannot otherwise he accomplished. In this 3. Meadow land .- Along the sides of rivers or way the chante in the neighbourhood may likewise

working the mole-plough by eight men instead of injured by water. Sometimes land in this situa- (have been either partially or) to my mind some scraps cutting only, but sometimes

required. sesumere noti.

### Miscellaneous Commu dies, &c.

ON THE MURRAIN. A DISEASE INCIDENT TO HORNED CATTLE,

TO THE EDITOR OF THE AMERICAN FARMER. SIT-It would give me great pleasure if I could answer, m any way, satisfacturily, your enquiries relative to the disease in horned cattle, called Murrain. To ascertain the true character and similitudes of the discase - is, no doubt the only mode to understand and controul he random exhibition of remedies seldom ever ultimately establishes any useful discovery; and what must be the mischief done throughout the multitude of trials, hefore that desiders'um 1 obtained? There are diseases curable by specete renedies, in the brute as well as in the human creation, we know; but they are few and must necessarily be of a fixed and uniform nature and limited range in the system, to admit of being controlled by the specefic influence of any one remedy, or the coo-curring jarring aids of many combined. The same remedy cannot suit every stage or state of a disease. hot, chilly, sweating, parching or other natural chan-ges--nor be applicable to its varying direction from one organ or part of the system to the other-from the stomach to the brain, the bowels, the kidneys, the surface, the bones, &c. the same disease having different symptoms when seated in different organs, and requiring different remedies or variation of the same remedy accordingly; all which is as perfectly ascertainable in the beast as in the man, if the same means were used to ascertain it. But "do men gather grapes of thorns, or figs of thistles?" An animal having four legs instead of two, in nowise alters the laws or properties of its machinery; or the infine e of drugs in correcting their orcrations. Nor does that or any other diversity of animal structure, make its diseases more conspicuous to common place observation, or convey to the auxious owner, an instructive knowledge of their curc

The elementary priinciples of such knowledge are as indispensible to its perfect altainment, as the acquisition of letters to the learning to read; unless there should arise in the brute creation, as in the human, a teacher, who will learn you to speak a language before you know the rudiments of it. While I would fegret to damp the rude efforts of unenlightened research on this subject, especially without providing a better, it cannot be wrong to direct the attention to what, unquest enably is the only true ground in which science and here scan be reared in this, as in all pursuits of human knowledge, viz the acquisition of elementary principles, data on which to build; rules to guide and test our observations. The subject is not unworthy of it : daily do be te ani als become of more importance in the affairs of human life.& therefore hotte entitle to human feeling & consider on. should the investigation and treatment of their dreases, be held despicable, while the works of nature are found every where interesting; & human skill & knowledge always carrying their own reward. While it would be easy to bring this subject within the reach of every one disposed to give to it soitable attention, i. is, in its resent state, doubtless more in the power of the physician, than in any other class of persons to mould it into something like substantial form and system, and give to the public sentiment a suitable impulse in regard to it, by developing the true characters and pointing out the appropriate remedies of their diseases; nor indeed can either of them ever be ascertanted through any other medicin, to an extent at all progressive and commensurate ath the improvements in other sciences, placed in hands competent to manage them-since that knowledge, requires, as a preliminary, an acquaintance with animal economy, without which any acquirements relative to the character and treatment of diseases, must nesessari ly prove very limited-confused in its application-and subject to great mischiefs. "he anatomy, though nere machinery, needs more application, and the plysocopy of animal life, more de; that research, than the usual tabourers in this vineyard are able or willing to bestow. On medical men, then, this subject ought and must have bitually devolve, before any creditable or useful progress can be made in it; at least so far as to establish the

responding remedies of hrute Kidney niversal and immutable basis your house-yards, and with only the same freedom you A principal crop of kid dure—and so classify, define and take on our grounds, walk about and stare at whatever n the first week of this hey cannot be readily mistaken annues him. You would think, and probably call him about the middle, an rienced observers, though not serAny of the rienced observers, though not seriream-cc super the diseases—though generally mere jobs,

in fell see cutted—and more liable to great abuse,

in fell see cutted—and more liable to great abuse, e yet proved very useful. There is no treatise on brute diseases deserving even that name; nor can there be in the present state of that art of healing—because give us your company unasked, to the disturbance of our the necessary facts and histories are not collected; and surprised families; but you commonly make us pay for no, one ever so conversant with the laws and structure of these unbidden visits, by helping yourselves to apples, the animal machinery, and well disposed to the duty, can peaches, cherries, &c. nay, taking part of the very trees have such a range of observation, experience and dishave such a range of observation, experience and disnave such a range of observation, experience and dis-sections in one view, as to systematize them. Hunter, and some other learned men, have touched this subject incidentally; and if such had been the general practise ment our deplorable deficiency—and the mortification in the way of this subject, and the means to obviate municimum

FOR THE AMERICAN FARMER.

### THE COUNTRY TO THE CITY.

SISTER,

FOR you are our bone and our flesh, and the most affetionate address and brotherly feeling becomes us in corresponding with you. We know the industry, enterprise, private probity and public spirit which animate stins, where goods are as pienty as applies at nome, and prise, private probity and public spirit which animate stins, in the state of the state contribute from our labours, as the bounty of Providence drops down upon our fields, receiving again in the social intercourse, from your overflowing stores, measure for measure. But in the midst of this mutual interchange of benefits, there is semething wanting in particular offices, for which we have a little against you. We justify and approve the regulations by which you restrain or correct the rude, boorish, or injurious conduct of our disorderly wagoners, drivers, or knavish marketmen, in your streets and public places. Such will, at times, go from us, and display their brutish or covetous men, in your streets and puone products to men, in your streets and puone products to the reformation of such bad manners, at home or to the reformation of such bad manners, at home or abroad. But we must freely tell yoo, that there are a much in your sas any other, be it where it may is as much in yours as any other, be it where it may is as much in yours as any other, be it where it may is as much in yours as any other, be it where it may is as much in yours as any other, be it where it may it is as much in yours as any other, be it where it may it is as much in yours as any other, be it where it may it is as much in yours as any other, be it where it may it is as much in yours as any other, be it where it may it is as much in yours as any other, be it where it may it is as much in yours as any other, be it where it may it is as much in yours as any other, be it where it may it is as much in yours as any other products. cious carelessness of parents and masters, are untaught of that modest and inoffensive behaviour, so lovely in youth and becoming to every age, but full grown men, in fashionable garb, as well as laboring dresses, who issue from your avenues and come prowling into all the roads that border our fields and gardens. We should be pleased to see your sons and daughters come out to breathe our scented air in spring, or enjoy the varieties of the following seasons. It would give us pleasure to hand them the refreshments of our fountains or milk-houses; their appearance would enliven our solitude, and captivate our attention. But, alas! instead of agreeable visitors, to be welcomed like the birds of spring, and give animation by their sight and voices, they appear like creatures of prey, ready to seize upon and devour, by force or stealth, whatever "tempts their wandering eyes." Gardens are despoiled of their flowers-orchards of their fruits: noise and profanity break the peace of the fields-the sacredness of the sabbath, and add a dabolical annoyance to injury. It is true, that all these foul circumstruces do not attend every trespasser on our properties. Some of them confine themselves to entering the fields and picking, as if it was their own, a little fruit, or something else, which they estimate of little value, and therefore persude themselves there is no harm done. But give us leave to tell you, that they must reckon with the owners on these matters, and cannot so easily make out an account by themselves. Let us see how the reckoning stands in truth, when we come together?

In the first place, no one has a right to enter another's inclosure: this is both law and reason; for if he may at his pleasure, the rights of others are gone, and the indeny, as freemen, in word and deed.

But, secondly, it would be hardly doing you justice, to suppose you always so innocent. It is not only that you

of the medical profession, we should not now have to laare caught in the fact, to be called theres. They only to see this science a century behind all others. I will take a lattle. But as this, though a genteeier sound, is quite offer in my next, a few remarks on practical difficulties the same to the losers; it must be allowed to them, when a little hurried, as they are apt to be on such occasions, to call these takers, thieves and robbers. If the gentlemen are offended, they must change their manners, and then they will be treated with bettler names, as well as come off better in their persons, when they meet with farmers and gardeners, too angry to understand the difference

Perhaps your people will understand this better themselves, if they suppose a countryman to come into their stores, where goods are as plenty as apples at home, and

You may answer, these cost you a great deal of money, and they are not to be taken, but are oilered to the country for their money. But the fruits of the country are dropped from heaven, and may be taken "without money and without price."

Dear Sister! you are well read in the scriptures, and must be allowed to have "shewn your faith by your works." But though many of your beauteons sons and daughters, like the lities of the field, "neither ton nor spin," there is a little mistake in the fact and doctrine,

what you can, and heaven increase it; but pick not away

from our gatherings.

But, farther, our lands cost money, too; and not a little. Every tree and hush is dearly planted, a price is paid at first-the digging and planting cost many days; the ground they stand on pays rent and tax continually. Every orchard before it yields its fruit pays many year's interest. The space covered by a tree within a mile or two of your city, is worth a considerable sum. Then after we have bought a plant-transported it a hundred or a thousand miles-digged and set it-given it groundtended it for a dozen years; as soon as it begins to show its fruit, and the patient cultivator promises himself to eat thereof and give to his children, a rapacious gang, regardless of all right, of all pity, issue from your crowded streets, and tear away the expected blessing, even before the eyes of the disappointed family Think you this is little? Would you count it so, if done to yourselves? But the evil does not end here. If the robber is strong enough to defy the sufferer, the latter endures the aggravation of insult and mockery, which blackguard wickedness is ready to pour out when detected. If not, he sometimes pays in his person, a heavy price for the ill-gotten pennyworth.

But at length the mischief recoils upon the town, in a more silent and certain manner, where the good and had suffer together. The fruit grounds are contracted, or changed to different productions. The trees are often cut down by the hand that raised them, to take away the occasions of vexation. You receive less in your markcts; coming farther, it is worse when received, and you truder is lord and master; a doctrine which we will pay more for it. The country is put to greater expense

Suppose one of our sons, or servants, should go into there are excluded by walls and high fences, from even the sight of the greens and blossoms which others are so prone to violate, in their walks for health and pleasure.

But besides the thieves, small or great, we must com-plain of another species of transgressors. A number of offensive idlers sally out with guns, to the great annoyance of our children and servants, in their sports and labors. The noise and the shot enter our very houses : discharged by unmanly spirtsmen, upon the blue hird, thrush, and robin, any bird of song or beauty, that falls under the savage glauce of these ignoble hunters. This, too, at a season when every murdered bird leaves a helpless brood to perish with famine in the nest. Scarcely the swallow, or a sparrow, can escape, and in a near your precincts. But, instead of these beautiful and sprightly little visitors, disgusting crowds of catterpillars and destructive grubs, will deform and desolate the country, in righteous judgment for the wanton destruction of the useful creatures, who formerly kept down their devouring numbers.

While thus, unamiable and pernicious as the vermin on our fields, can you be welcome there? Reform your ways! Teach your sons, that, taking little or much from others, is thieving. Ful them with scorn of the dirty action. If they are not worth a few cents, to buy at market, "ask and it shall be given;" knock and our gates will be opened unto you. But, if you will come over our walls, expect the reception of thieves from your offended relative.

For the AMERICAN FARMER.

#### DOMESTIC MANUFACTURES...No. 3.

It is a favourable opinion with many, that industry left to itself, will always pursue the most profitable employment, and that therefore, every effort to encourage a particular branch of business, is impolitic and useless. As this hypothesis is an implied censure not only on all measures of government intended to favour domestic manufactures but also on those of various societies, and even perhaps on all essays. whose end is the same, a few comments upon it, in justification of our own conduct, may not be unacceptable to the reader.

Self-interest is generally supposed to be quicksighted, and to be animated by a kind of instinct which is an infallible guide. But how does it happen, that in following this Mentor, individuals and nations run to ruin! The truth is, a proper distinction is not made between passion and reason. Self love is a feeling, universal, strong and constant; but it is seldom conjoined with wisdom, power and activity. That lives in the breast of all; these ennoble the names of few. Every one desires his best interest; but every one does not at the same time know it, nor the means by which it is to be attained ; nor does every one knowing it possess the power and inclination requisite for the attainment of it. Most men need instruction, persuasion and encouragement, to induce them to any important understanding.

The force of habit it is well known, is very great and in some instances almost invincible. So much are men governed by precedent, and so prone are they to continue in the employment to which they are accustomed, that some extraordinary influence is necessary to move them from their heaten track into any new line of business however profitable and practicable it may be. The sailor will tell you he cannot live on shore. He would go hungry and destitute of clothing rather than work upon the sod. The merchant, who has for years past, derived from commerce a handsome profit, hopes to be equally successful for years to come, though the state of things render it impossible. He lingers at his counting house until necessity compels him to abandon it. for stronger enclosures, and your more innocent mem- and he yields with reluctance to his fate. Timely

er than beg, if men of ability would find them em-ferment before mixture. ployment. Instead of suffering for the necessaries earn a comfortable living and recompence their if new, let them be first well seasoned. employers for their trouble. It is said, that even the industrious.

Granting it to be true, in general, that industry purartificial aid could be useful. Indeed the very oppo-

site inference seems logical.

Capitalists, whose ability is requisite in any conforeign nations may have acquired in a particular viduals engaged in any particular branch, to frustrate all attempts to introduce it in the countries think it not advisable. that receive their goods, are obstacles that naturally the weakness and helplessness of infancy had not re- of its pure vinous taste. ceived proper care and support.

If it be certain, that manufactures once firmly established, would stand by their own strength, (of rior to most wines commonly imported, and for much which there can be no doubt) let us lend our aid a less money. few years to encourage them. Let it be remembered that every man who wears a domestic garment.

encourages domestic manufactures.

### OPIFICI AMICUS.

We were furnished with the following receipt by a lady, a pattern of industry and all the domestic virtues, at a hose table we have drank this wine in great perfec-tion. It is desirable, that wine, and beer, and eider. should take the place, as far as possible, of ardent spirits. the extravagant use of which, has already become the scourge and the reproach of this young country. It is, therefore, to be wished, that every thing which can increase the means or throw light upon the manner of making these simple and wholesome beverages, should be and so proportionably for any quantity you please made known for public benefit; and we shall feel much to make. obliged for all information on such matters. The receipt

### Receipt for making Current-Wine.

Gather your currants when full ripe, which will for the purpose, consisting of a hopper, fixed upon give it a proper fermentation. two lignum vitze rollers) press and measure your juice, add two-thirds water, and to each gallon of

advice and encouragement might have induced him better; very coarse sugar first clarified, will do equalto change his occupation, before his capital and his ly well) stir it well, till the sugar is quite dissolved, and then turn it up If you can possibly prevent it, Thousands of poor, idle beings would work rath-let not your juice stand over night, as it should not

Observe that your casks be sweet and clean, and of life, and being burdensome to society, they would such as never had either beer or cider in them, and,

Do not fill your casks too full, otherwise they convicts in our Penitentiary, support themselves; will work out at the bung, which is by no means though the goods they manufacture are sold at much good for the wine; rather make a proportionable less than market price. If this be done by con. quantity over and above, that after drawing off the straint upon lazy criminals, what might not be effec. wine, you may have a sufficiency to fill up the casks. ted by persuasion and reward upon the innocent and Lay the bung lightly on the hole, to prevent the tlies, &c. from creeping in. In three weeks or a month after making, the bung-hole may be stopped sues its highest interest, it does not follow that no up, leaving only the vent hole open till it has fully done working, which generally is about the latter end of October. It may then be racked off into other clean casks, if you please; but experience siderable undertaking, particularly in manufacturing seems to favor the letting the wine stand on the lees establishments, are in general too prudent to engage till spring, as it thereby attains a stronger body, and in novel enterprizes, without a prospect of immedi-lis by that means in a great measure divested of that ate profit or at least of ultimate success. You must sweet, luscious taste, peculiar to new made wine; inspire them with confidence before you can enlist way if it is not wanted for present consumption, it them in the cause. The superior skill and ability that may without any damage, stand two years on the lees.

When you draw off the wine, bore a hole, an inch, branch of manufacture, during years of experience; at least, above the tap hole, a little to the side of it, the bounties and premiums paid by their govern-that it may run clear off the lees. The lees may eiments to enable their manufacturers to undersell and there be distilled, which will yield a fine spirit, or filsupplant competitors; and the combinations of indi-tered through a Hippocrate's sleeve, and returned again into the cask. Some put in the spirit, but I

Do not suffer yourself to be prevailed on to add create a dread, which must be removed by some ar-inore than one third of juice, as above prescribed, in tificial aid for a time, until the causes of its excite- hopes that wine may be richer, for that would renment shall be overcome, or cease to exist. The derit infallibly hard and unpleasant, nor yet a greater strength and ability of manhood could never exist if proportion of sugar, as it would certainly deprive it

By this management you may have wine, letting it have a proper age, equal to Madeira, at least supe-

In regard to the quantity of wine intended to be made, take this example, remembering that twelve pounds of sugar are equal to a gallon of liquid.

For instance, suppose you intend to make thirty gallons only, then there must be,

8 gals. of juice. 24 gls. mixture. 16 of water, 3 multiplied by 24 gals. mixture, 12)72 lb. sugar, 6 gals .produced by sugar equal to 6 gals. of liquid 30 gallons.

The common cider presses, if thoroughly clean, is copied from "Carey's American Museum," for July, will do well in making large quantities : the small hand-screw press is most convenient for such as make

N. B. An extraordinary good spirit for medicinal commonly be about the middle of July; break them and other uses, may be distilled from current juice, well in a tub or vot, (some have a mill constructed by adding a quart of molasses to a gallon of juice, to

Note .- On some of the borders of a garden, the size of that mixture, (i. e. juice and water) put three pounds ed, to make, annually, 25 or 30 gallous. An acre, well of muscovada sugar (the cleaner and drier the managed, would probably make at least 500 gallons.

's to my mind some scraps

Extract of a letter to

BRANDI . syumere nati. " A few words on agriculture with Mr. Cobbell's remarks on trail "rentes impatient to hear him on earth-burnt that being a resource within the reacenthat has a soil suitable for grass.

"I have lately taken into one of my houses, an Eng farmer and his wife, with two children. As they came bare-handed, I gave him a house, rent-free and about half an acre of ground for a garden. The ground is in a soil of grass. He is now burning the sod after having been ploughed, and cross-ploughed, and dried, and liberated in part from the soil. Being a light loamy soil, of a good quality, there was no other way to get the grass effectually destroyed in time for planting. He is now planting what is cleared, and continues the operation of his fires on the residue. He has an abundant portion of ashes, or burnt earth and ashes, more he thinks than sufficient for some of his vegetables. I tell him to use it freely, especially on Indian corn and potatoes, as these are not easily over-manured.

" I mean to make an an experiment by burning a small spot in my cornfield, having just now finished ploughing in the sod: The results shall be noted in due time. But, on observing what is done, I am prepared to believe it a fertilizing process; if so, and no bad consequences attend it, the subject is brought within the reach of every man, as the fuel is nothing more than a kindling sufficient to originate a heat, that is kept in by judiciously covering timely with sods, so as not to let it escape too

Note by the Editor. So many things present themselves, with equal claims to preference, that we find difficulty in making the selection for our paper, and aro often remioded of the first number of Dr. Johnson's "Rambler," the subject of which is the difficulty of

knowing what subject to choose.

We want, for example, to present our readers with all the lights we have gathered on this business of earth burning; it is an interesting one, and may prove highly useful, particularly as we think in those districts where whole fields have been taken possession of by what is usually termed broom-sedge, the great mass of roots which this grass affords, when a little dried, will furnish a sufficiency of combustible matter for burning the sod thoroughly. It has been found difficult to bring such land under complete subjection; and besides, an idea has prevailed, that, when turned in green, the broom sedge contains an acid, which, in the process of fermentation, acts injuriously on the land. By the burning process, a thorough decomposition and alteration of its chemical properties is accomplished, and applied in the shape of ashes; a very different result may be expected. More of this hereafter.

Why is a Gardener the most extraordinary of men?

Addressed to the Countess of Coventry.

Because no man has more business upon earthand he always chooses good grounds for what he does He commands his thyme, he is master of the mint and fingers penny royal; he raises his celery every year, and it is a bad year indeed that does not bring him a plum. He meets with more boughs than a minister of state; he makes more beds than the French king, and has in them more painted ladies and genuine roscs and lilies than are to be found at a country wake; he makes raking his business more than his diversion, as many other gentlemen do, but makes it an advantage to bealth and fortune, which few others do; he can boast of more rapes than any rake in the kingdom. His wife, notwithstanding, has enough of lad's love and heart's ease, and never wishes for weeds. Distempers fatal to others, never hurt him: he walks the better for the gravel, and thrives most in a consumption. He can boast of more bleeding hearts than your tadyship, and more laurels than the Duke of Marlborough; but his greatest pride and the world's greatest envy is, that he can have yew when he pleases.

Kidney , ety of Maryland.

A principal crop of Red in no announce, that an inin the first week of this ive attention to agriculture, as a about the middle an the practice of it, by the shortes. Any  $e^{it}$  the practice of it, by the shortes eream- $e^{it}$  suppose  $e^{it}$  to the cream  $e^{it}$  suppose  $e^{it}$  coof of this in almost all of the nume , for see ceive, and in the very great and flatterncouragement given to our humble labours, in the cause of the plough. An agricultural society, we under stand, is about to be formed in Frederick county, and, we trust, the example will be followed by many others Whether these societies will be independent and unconpered, or whether they will be branches of the state society, formed at Baltimore, we do not know. For one formed on the latter principle, the following form of a constitution, has been recommended by the Agricultural Society at Easton :-

Whereas, a number of respectable Agriculturists of this state, at a meeting held by them, in the city of Baltimore, on the 2d day of June, in the year eighteen hundred and eighteen, established a general su perintending Society for the advancement of Agriculture, under the style and title of the " Maryland Agricultural Society;" and the members thereof have declared their conviction, that, for the purpose of obtaining and combining the knowledge and experience of industrious and enterprizing farmers, and of extending the advantages of rural economy to every district in the state, the citizens of each respective county, ought to be invited to form an Agricultural Society therein, as an auxiliary and important measare in promoting the useful objects they have in view: And whereas, for the sake of connecting the efforts and proceedings of associations in the counties, with those of the General Society, and of affording to all, the benefits which each may derive from the other, an uniformity of plan in the construction of their government, and modes of correspondence of the County Societies, has been respectfully recommended.

We, therefore, the subscribers, approving of the views of the General Society, and of the constitution whic its members have formed for the government thereof; and being desirous of uniting with them and of assisting them in promoting the great Interests of Husbandry, do hereby agree to associate ourselves under the style and title of " The Agoricultura, Society of - County," and to govern ourselves according to the following articles :-

1. The object of this ascociation, like that of the General Society, is the promotion of Agricultural

and Rural Economy

2. he Society shall consist of every individual friendly to this object, who shall desire to subscribe these articles; and so soon as twenty individuals shall have subscribed them, the Society shall be considered formed, and the members may proceed to organ ize themselves.

he society shall meet in stated quarterly Bossions; and at their first meeting and annually thereafter, the members present, shall elect by a majorny of votes, a President, a Treasurer, and a Secretary, and also a committee of nine members

- 4 This committee, associated with the President and ecretary, shall have the general management of the affairs of the Society, and hold a corre pondence with the Board of Agriculture of the Fastern [or Western] shore, upon every su ject belonging to the interests of this association, which they may information
- 5 At the general meetings of the Society, the pumber, and the same shall be retired to the com-

require: And he shall report, read and explain to the Society at large, such letters, papers and experiments, as may have been transmitted to the committee, or as may be considered deserving of their at-

- 6. Every member subs ribing these articles, shall contribute one dollar annually to a fund for premiums, stationary, and other expenses to be paid to the treasurer, in quarterly or annual periods at his election.
- 7. One fourth of his contribution shall be retained by the treasurer, for the stationary and other expenses of the society; and the residue shall be annually, or oftener, remitted by him to the treasurer of the Maryland Agricultural Society, to be employed under their direction in the payment of premiums and other proper objects of their expenditures. And, to enable the state Society to form a true estimate of their resources, the Secretary of this Society shall annually transmit to their Secretary, a list of all its members. Provided nevertheless, that in addition to the general premiums which may be offered to the community at large for improvements in Agriculture, one third part of the residue shall be set apart by the General Society for the encouragement of enterprising Farmers in this county, and applied in premiums to reward their discoveries or successful experiments.

8 At their stated meeting in the Spring of every year, the S. ciety shall appoint a deputation of three skilful and intelligent Agriculturalists to attend the Maryland Agricultural Society, as members thereof,

at their respective meetings.

9. The Society shall have power to make such rules and by-laws for their government, and for the management of their affairs as they shall think proper ; and to add to, alter or amend the present Constitution: Provided however, that no proposition to change or affect the 6th, 7th, and 8th articles thereof shall be adopted without the concurrence of the County Societies, as well as that of the State So-

From the National Advocate.

#### DOMESTIC ECONOMY.

I am satisfied of one fact, and from close personal observation, and that is, a very considerable and unnecessary sum of money is annually expended in this city, from the too prevailing custom of sending servants to market, instead of the master going himself. Old men will be curious and prying into other people's affairs; I know it, and must abide the censure: but, as I said before, I am will off in the world, and means of promoting the happiness of my fellow creatures; so I brushed up my old cocked hat seized my cane, and one bright morning in spring, I took my stand near the Fly-market, to make observations on what passed in that bustling and all-important place Upon a moderate calculation, I decided, that out of four persons who came to market, two were servants; and I had an opp rtunity of observing their separate expenditures A black gentleman, with his wool nicely combed, a superfine blue coat, with watch seals, and a large basket on his arm, broshed up to wish to communicate, or upon which they may desire the butcher. "I want four fine ribs and three of the best steaks." " You must give me my price, the ," says the butcher "I never dispute that," said the President shall receive the communications of any black gentleman, "come weigh them, here's the pumber, and the same shall be retrieved to the communications." Four cutlets," said he to the veal outch thittee, or otherwise disposed of as the majority shall er, "how much?" "Twelve shillings." There's the crowds of rude servants, waggoners and fish women.

shiners." " Put those fowls into my basket, Mr." said the sable provider, " and take out the price from this five dollar note." " Let me have four pounds of that salmon-how much is it?" "Six shillings a pound." " Not dear—there's your money." "Let me see, what else ... Three dozen eggs, sallads, cranbaries-Zounds! I shall have nothing left out of my ten doilars." In this manner did an improvident master entrust a careless servant to cater for him. who without system or economy, expended ten dollar-, when five would have been more than sufficient. Suppose that this sum is thus daily wasted, it consumes somewhere near three thousand dollars per annum, for marketing alone. Is it surprising that people become insolvent? A master of a family, instead of rolling about in bed until 8'clock, or probably later, yawning, or harmonizing with his drowsy wife, in a good confortable snore, "making the wel-kin ring," should be stirring with the lark; should rouse the servants; set industry into motion; be off to market himself, with his basket; should cheapen every thing he may require, and purchase no more than what is strictly necessary, and then return from his economical duty, and find his wife ready to receive him at breakfast, with cheerful looks, his table spread with frugality, cleanliness, and comfort. Then the husiness of the day having had a hapny and judicious commencement, will progress lightly and prosperously. What pride can be more false, more dangerous, more censurable, than that of feeling ashamed to purchase in person, and not by deputy, the articles indispensible for domestic consumption. Set your house to rights, is an early and a just proverb, and if husbands do not set a proper example of economy to wives, they are not authorized in railing at their wives' extravagance. I do not admire inviduous comparisons, nor am I pleased when I see one city eulogised at the expense of another; but I do admire the Philadelphia custom, of ladies! going to market ;\* and I see no reason why ladies should not go to marke., as well as to go to what is called "a shopping;" I can perceive no difference in a lady's purchasing a nice pound of butter, a basket of fruit, or a pair of pheasants, than in purchasing a pair of shoes, a pair of gloves, floss cotton or a chip hat; in principle and in practice, it is the same; both of necessity, are indispensible. But as I was saying, I do admire the Philadelphia ladies, who market twice a week, make all domestic purchases, and are familiar with all the arcana of higgling and purchasing on the best terms. Who are they serving? Why, their families. " Many a time and oft" have I admired those bewitching faces; have nothing else to do than to look out for the best with pure red and white, peeping from under a drab bonnet, pacing with modest steps up and down a clean market, with a nice tooking little girl behind with a basker and a tin kettle, in which the butter was covered with fresh vine leaves and congealed with ice. a small steak, a few mutton chops, a sallad or a fawl -the aggregate of which is not considerable, constitute their maxium of supples and thus is economy promoted and comfort produced. It is very injudicious to trust servants with what is the duty of mas-Much as we admire the essays of Howard we must dis-

sent from him in this. Ladies should only go to market in cases of lamentable necessity, where the widowed mother is compelled to submit to many things revolting to temale delicacy. Let the mistress rise early, wash and dress her children, teach them the use and value of their book, their needle and their music, and have her ho se "put in order" while her husband goes to market. He may have strong h and courage to push his way thro

ters to perform. A servant may feel some interest for his master; but not knowing the resources of the master, he cannot study that interest with proper ni cety; though it most frequently happens, that by trusting expenditures to their care, the 'superflux' too enerally finds its way into their puckets

HOWARD.

### BALTIMORE: FRIDAY, MAY 14, 1819.

ONCE FOR ALL!

The Editor of the AMERICAN FARMER has good reason to believe, that an impression prevails to a certain extent, that this paper will be realter assume a political complexion. Once for all, then, he declares, most explicitly, that not a word of party politics will ever be allowed to enter its columns. The professed objects of the paper, Agriculture and Domestic Economy, are its real objects ;-These are of no sect or party. Even had the Editor the vanity to suppose, (which he utterly disclaims) that any thing which he could say, would have any effect, -where is the necessity? Are there not already papers enough, whose vocation it is, to "fan the embers" of party?

#### NEW INVENTIONS.

The creative genius of our enterprising countrymen, is ever on the wing to discover new means of enhancing the conveniences and comforts of public and private establishments. Amongst other recent improvements, there is one lately made by Coleman Sellars of Philadelphia, in the construction of MALL EAGS, WAGGON GIER, &c Instead of being sewed with shoemaker's thread, as formerly, there is not one stitch of the ead about them .-They are fastened altogether with rivets; the seams are water tight, they can never rip, and there would seem to be scarcely any end to their durability. The rivets are small, so as not to increase, materially, the weight of the giers; and the heads of the rivets being made perfectly smooth, no inconvenience is experienced from them ww

#### SADDLES.

A very pleasant improvement has been made in the con truction of the saddle seat, some years since, by John Bryan, of Kentucky, which we apprehend is not so generally known and appreciated as it deserves. It consists in a steel spring, one end of which fastens to the har of the tree, and thence passes round and upon the tree to the cantle, or find part of the saddic, where the ends of the two springs nearly meet. The length webs which in the common saddles are nailed fast at both ends of the saddle, are in these, fastened to the ends of the springs so that we should suppose the rider would derive, comparatively speaking, quite as much relief from the elasticity of this seat, as the traveiler does from the springs of a common carriage over one that has none. The one we saw, was at the shop of a very deserving young trade-man, Tuomas Mackenzie, who has the patent right The following certificate from the late ther if of Calvet County, testifies the superiority of saddles made on this principle\*:-

May 1st, 1819.—I hereby certify, that I have had in constant use, for three years, a PATENT ELASTIC SADDLE. nade by Thomas M'Kenzie, of Baltimore, which I pro-note ce, to be far superior for ease and durability, to any other saddle I ever before had. JAO. CLARE.

\*Others who have tried them, offer to testify to them

### PLOUGH GIER.

We have seen in use, in a particular neighborhood in this state, wooden hames or collar, as a substitute for the leathern or corn-hask collar, which we believe to be worthy of general adoption—particularly where multi-are used. These hames are made of seasoned swam willow, which is light, soft and tough. Its recommends tion consists in its less liability to gold, strange as it may seem; and this arises from its being comparatively much cooler than the large heavy leathern or corn hush collar, which comes in contact with a large portion of the body -excites much perspiration, and thus galds the animal. The willow collar, on the other hand, is made to fit fairly and smoothly—touches a small space, is very light and easily kept clean—on which much depends. The great secret for preventing galding, is to hee; the haness clean, and to wash the part with clean cold water, where the saddle or harness touches.

#### THRESHING MACHINE.

Numerous schemes have been proposed as labour -a ving sub-titues for the common tedious method of separating grain from the straw, by the use of the ilail, or the less cleanly, and more laborious process, of treading

These machines have generally been found, on trial, very complicated, expensive, and difficult to be kept in order; but we have just seen one, patented by an ingemous mechanic of this city, Mr. Thomas Mayfield, which seems to unite simplicity of construction with sufficient power, and little expense; he calculates it will clean fifty bushess per day, with two hands and a boy to attend it. The wheat is to be struck by twelve double-jointed flails, within the space of twenty-six inches; and by the feeding roller the wheat passes under these flails, at the rate of ninety inches in a minute. The machine works a fan, and cleans the wheat by the same operation. We trust he will find no difficulty in obtaining that encour agement and assistance, for the want of which many deserving mechanics, as well as the public, lose the benefit of their ingenious and useful inventions,

#### BRICK MAKING.

As the most beautiful theories, when reduced to practice, often develope some unforseen defect; so miniature machines, however symmetrical in their proportions and apparently well addapted to secure the advantages proposed, frequently disclose some undiscovered and incurable incongruity of arrangement in their parts, or some defect in their principle, which renders them useless when we attempt to put them in practical operation

We will not say, that this will be the case with STEW-ART's machine for making bricks-on the contrary, it ap pears to us to be perfectly feasible—its operation is easy and beautiful. We have hopes of having a cut to illustrate its construction. The inventor supposes it will save the labour of 200 hands. In the volume of "archives of New Inventions, for the year 1817," a French work, amongst other things, there is a memorandum of a sample of porcelain, and a machine for unnufacturing bricks, by M. Legr & D'Anizy, which is said to be capable of making 8000 tiles or bricks in one day, but the principles of the machine are not described; neither is its capacity by any means equal to what Mr. Stewart says can be done with his.

#### TRAVELLING.

In Doctor Franklin's time, the post-boy used to travel once a fortnight from Philadelphia to New York. In addition to many other coaches and many steam boats, there is now between those two cities a new line, called "the citiz n's c uch." It leaves Powle's Hook, at 5 o'clock P. M and arrives at Philadelphia, at 40 minutes past I, making eight hours and forty minutes between the two cities, so that news contained in the New York morning papers, may be found in the Philadelphia afternoon ones -or if, there was a return line, a passenger might leave New York in the morning, transact business for one hour and a half in Philadelphia and return to New York, to sleep, by H o'clock at night, having travelled more than 200 miles! Talk of European improvements and expedition; there is nothing to equal this in the world.

#### COUNTERFEITERS.

The Corporation of New-York have intercepted and published a letter, which shows that a most extensive association exists, for counterfeiting the bills of differ ent banks in the United States, and those in Canada They say the writer is known to them, but they think he has exagerated in his account of the extent and maturity of their system. The writer proposes to have one copper-plate press for their purpose, kept at work in Boston, under the direction of L. S. B. one at New-York, and one at Cincinnati He says they have three excellent engravors employed, viz. J. W.-L. R.-and N. P.—that the two first consent to receive their pay in the bills they may make; but the last is such an "infernal coward" that he insists on good money. The writer then gives a long list of the plates he has got under way.

Killed, on the 10th ult. on the Florida side of the it Mary's river, opposite Trader's Hill in Georgia Lt William H Belton , of the 4th regiment of U S. mfantry He received his wound in a duel, fought with muskets, at ight paces. The parties fired at the same instant; Belton was strick under the feft breast and expired in a few stes, the ball passing through him. His opponent was not injured.

TAY 1 % to my mind some scraps

Weighed, inspected, and ven the 1st of July, 1818, to the 3' rsumere nati. of ten months. Copied from the rentus

		1	HAS		die	s, &:	
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1818.	July	217	il	ó	8		
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-	April,	325	t 5	3	16	3	ì
		2901	11	0	175	2	

Supposing the above hav to sell at \$ 19 per ton, and the straw at \$14 [perhaps a fair average of the two articles] and it is ascertained that the revenue to the adjacent country, drawn from the Baltimore market, arrising on these articles only, for one year, is about \$6,000 If a line were drawn east and west, through the city, it is probate, that it would be found, that out of this \$65,000, 50,000 of them go into the pockets of the people worth of the line-so little do the people south of it, know or care about raising artificial grasses-but ignorance, obstinacy and indolence, are their own punishers.

#### AN ARCH BRIDGE.

On a new construction, has been recently erected over Onion River, near Montpelier, in Vermont. It is said to be "composed of thir y-nine string pieces, thirty feet in length, and ten inches by eleven and a half in size; together with twelve thwarts, or cross-pieces, twentytwo feet long, seven inches by fourteen, forming one entire arch, one bundred and ninety-five feet long, and twenty broad; with not a single mortice, tenant bolt, or band about it The whole expense of the bridge did not exceed two hundred dollars."

M11 1111

We learn (says the Aurora) with great pleasure, that Mr. George Clymer, of this city, who went out to England three years ago, with his invention of the Columbian Lever Press, has obtained the most flattering encouragement, and has made a vast establishment to execute the orders which he had received The press of Mr. Clymer is employed in the king's printing office; and in several others; there is this further circumstance, that the monarchs of Europe, have patronized the Columbian Press; the emperor of Russia, the king of the Netherlands, and even Ferdinand VII of Spain, have patronized it. We shall endeavor to obtain more particulars.

Married, on the 3d inst. at the house of Benjamin Prescott, Esq. Cohoesville, near Waterford, (N. Y.) by the Rev. Mr. Butler, Mr. Lourent Clerc, of La Balme, (France) to Viss. Eiten C. Beardmen, of Whitesborough, (N. Y) both deaf and dumb Mr. Clerc is one of the principal instructors in the asylum for the deaf and dumb, at Harford, Con. and Miss Boardman a pupil of that institution.

Present prices of Maryland produce, in the Baltimore market

TOBACCO-of this article, we will state particular sales, and their attendant circumstances, leaving the reader to make his own comments.

One hogshead of very superior Richmond has sold within the week, for \$14; twenty hogsheads of common Richmond tohacco, has also been sold at an average price f 39 Of Prince George's tobacco, ten hogsheads, made by B Ogle, Esq of the very best quality. fired tohacco, said to be equal to any ever brought from that county, \$14 to 16 Elkridge, good quality, 12 to 14 A few, very fine, from the neighbourhood of

Poplar Springs, for On the whole, Upper Pataxent tobacco, of good

quality, may be quoted at 12 to 14 Inferior quality, 10 to 12 WHEAT, red \$1 35 to 1 40 87 to 90 cents RYE. CORN, 53 to 55-OATS, 59.

HAY per tin, \$18 to 20 BEEL butcher's best, 12 1-' cents: yeal, ner quart, from the wagain, 31 to 1 25-do butcher's per th 12 1-2, mutton 8 to 10; fowls at to 1 25; eggs 16; butter 37 1-2 to 507

Enrists, &c.

Kidney WIISIS, AU.

A principal crop of Kid 3.2N, respectfully inform their in the first week of this public, that they have ou hand about the middle, an general assortment of Agricultural ag which is the celebrated Serew mould Any of the ag which is the celebrated approved of by cream-cream-creaming thich has been so much approved of by the forest farmers in this country, both for its minimum and case to the horses, which has been ascertained. aned to a certainty by a steelyard constructed expressly

for the purpose. The Screw mould-board Plough running only four hundred weight to the horses, whilst est rs, doing only the same execution, run six.

the superiority of this useful implement, would do well to call at their Factory, on the Philadelphia road, near the Columbian Gardens, where the following articles are likewise manufactured; Machines for sowing clover and timothy seeds; ditto for planting Indian corn at any required distance; Turnip drill Machines; Drilling and Horse-hoe Ploughs; llarrows of all kinds; Hay and dung Forks; Picks and Pick-axes, Iron Axeltrees for wagons and carts; and all kinds of iron work done on the shortest notice, and on the most reasonable terms.

### April 2-4t Flower and Gardens Seeds, &c.

JUST received by the Belvidera from England, a fresh and excellent assortment of garden and flower seeds and roots, which, with the stock already on hand, renders my assortment complete. As time is fast approachders my assortment complete. As time is last approaching to use those articles, persons in want will find it to their advantage to supply themselves in time, by calling at my Nursery and Flower Garden, N. Lexington street extended, or at Nicholas Bonncfin's, No. 18, Com-T. B. BASTIAN. merce street.

### April 2-4t. Fresh Garden & Flower Seeds.

THE following imported Seeds were selected by one of the first Gardeners in the country, who went to Europe expressly for the purpose. Likewisc, are received, an assortment of the celebrated Shaker's Seeds.

Among them are the following, viz.

15 kinds of Beans, 6 ditto Radishes, 7 ditto Peat, 7 ditto Cucumbers, 20 ditto Cabbages, 9 ditto Lettuce, 6 ditto Curips, 3 ditto Ocions; Asparagus, Celery (solid) curled Parsley, Garden cresses, round and prickly Spinach, Sweet Marjoram, Mangel Worzel, Salsafy, or Vegetable Oyster; Cauliflower, Carrots, Melons, &c. 100 kinds of Flower Seeds. Also, the Gentleman and Gardener's Calendar, containing full instructions respecting Gardenian for the calendar of the care of th dening, for sale at No. 223 1 2 Market street, opposite the Farmers' and Merchants' Bank. April 2-6t.

### F. BETTS,

BOOKSELLER AND STATIONER,

4, South Calvert, and 57 1-2 Market streets. AS just received Cap and Letter Paper, English or superior quality; English Ink Powder, Wascrs Sealing Wax, Durable Ink, Drawing Paper, Mathematic cal Instruments, Slates, &c.; Ledgers, Journals, Day Memorandum, Receipt, Letter and Invoice Books various sizes. All new publications regularly received School, Classical, Medical, and Miscellancous Books i the greatest variety.

Country Merchants, Preceptors of Academic and Schools, Purchasers of Libraries and others, sup plied on the same terms as heretofore, by wholesale April 30. retail.

## FLORENCE MACARTHY.

Just published & for sale at No. 140, Baltimore street,

### FLORENCE MACARTHY,

AN IDISH TALE,
BY LADY MORGAN—author of France, O'Donnel, & "IT was from his death words only, that I gathered h connections with the illustrious house of Macarthy this country. That he was high spirited and brave collected from my own observation. That he was u fortunate and in exile, it was natural to suppose, for fortunate and in exile, it was named as a rishman and a Catholic." Two vols.—price \$2 was an Irishman and a Catholic." N. G. MAXWELL. April 8

### PRICES CURRENT

AT BALTIMORE:

	AT BALTIMORE:		77	dan
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skinner's.

### New London Books

JUST RECEIVED by the Franklin-Shakespeare's Genius justified-heing Restorations and Illustrations of Seven Hundred Passages in Shakspcare's Plays, -By T. JACKSON

The Annual BIOGRAPHY and OBITUARY for the year 1819.

ST. PATRICK, a National Tale of the 5th century, 3 v. COQUETRY, a novel in 3 vols.

CAMPBELL, or the Scottish Probationers, a Novel WILL BE OPENED TO-MORROW,

A scleet assortment of STATIONARY, by the Franklin, N. G. MAXWELL. No. 140, Baltimore-st. April 16-4t

### Robinson's Weekly, Magazine,

CONSISTING PRINCIPALLY OF

#### CHOICE SELECTIONS FROM THE FOLLOWING

English Magazines & Reviews, Which are received regularly every month, by the publisher, viz.-

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sed to the publisher, post paid, will be attended to.

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Ap. 23. w3t

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### JOB WORK

EXECUTED WITH NEATNESS AT THIS OFFICE.

# AMERICAN FARMER.

RUBAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES Curumere nati.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIRG.

Vol. 1.

### BALTIMORE, FRIDAY, MAY 21, 1819.

N. M. S.

### AGRICULTURE.

From the Memoirs of the Philadelphia Agricultural Society.

### Notices for a Young Farmer,

Particularly one on Worn Lands; being some rusubjects promotive of its prosperity.

WITH NOTES BY THE EDITOR OF THE FARMER.

FARM YARD to be taid out on a good plan. Water intro duced and stock confined.

I. You cannot be too careful in forming the plan readily corrected by lime. of your farm-yard; (the magazine and laboratory of Full ploughing; its advantages. Corn-grub, or Cutworm. your principal stores for artificial fertility,) calcula ted ultimately for your improved farm. But begin with such parts of your farm buildings and accommodations as suit its present state of culture; and add time require.

If no water be in your yard, dig a well, promptly; and confine your stock from November to May; never permitting them to wander after water, the provender of the stalk-held, or the miserable fog of othture benefit. The stalks and husks of Indian corn, should be brought home for feed and manure; instead of being wastefully browsed, and trodden down by wandering cattle. Let not a hoof, unnecessarily. to give them proper exercise, within the enclosure, or if out of it, let them so remain only during the time employed in such exercises; or in the service required from them.

Yard to be stored with all attainable putrescible substances; to be mixed with the dung and urine in a pen or stercorary. Valuable qualities of urinc. Night soil.

II. Hawl into your yard, a sufficiency of every putrescible substance, within reasonable distance; and often clean up your muck. Have a pen, or stercorary, of solid masonry, with its bottom paved, or composed of sound and well compacted clay. Your manure gathered into your pen, or stercorary, should be secured against the treading of cattle, which, by excluding air, prevents the pecessary fermentation; a reasonable degree whereof is essential, although when excessive it should be checked Sir H. Davy's discussion, on this subject, shews one side of the question, and experience must teach the other. Mix earth with your fermenting litter, or muck, rather than line, until the fermentation be sufficiently advanced. If your stercorary be roofed or thatched, it will be the more perfect. (a) Have pits, secured from leakages, to collect the drainings of dung, and the urine of borses and cattle-the most valuable excrements. Human urine is also surprisingly beneficial; and, gen-cream. But when the secret was discovered, she could erally, (as it regards rural economy, wasted. Pre-judice and ridicule are alive, when it is asserted, that it is preferred by borses and cottle to sell; and it is preferred by borses and cottle t it is preferred by horses and cattle to salt; and is to conquest over the imagination.

them, salutary as a medicine, as well as a condiment, promotive of health, and consequent profit. \* Our Germans have been long acquainted with its uses; and a late publication in England, shews its powers, and tumn, to the corn fully grown. efficacy, as well for domestic animals, as for fertilizing the soil, when diluted, and judiciously applied. Im- that, in holes made near the hills, with a pointed diments for an Epitome of good Husbandry; and mense collections of it might be made, not only in ci-stick, inconceivable numbers of grubs have perishously regarded by us, has been long used in eastern that, by a ditch dug for the purpose, across a held, countries as the most valuable manure. In some the passage of Cutworms from a field which had been parts of Europe, it has for some time past, become destroyed, to one uninjured, was obstructed: and six an object of attention. Its offensive qualities are bushels of grubs were thus collected. (c) This would

> Soldy grounds; how to treat them. The Roller, and its uses. Farm well, on a small scale, rather than extensively and negligently. Hessian Fly. Mix earths,

and plough in green manures. Composts.

such conveniencies, as circumstances, from time to and add Lime, harrowed in at that season, if it be line, and rolling it in plaster. within your power. In addition to other advantages of this operation, you will thereby escape, either ed, in the direction of the furrows, after being brokwholly, or for the most part, the annoyances of the en up so deeply, as to place beyond vegetation, the Corn Grubs. In what mode the destruction of the er fields; in which they empty themselves, gain little or what it may; for on this subject, there are varinourishment, and uselessly scatter their dung, the eties of opinion;) is, by these operations, accomplishfertilizing qualities whereof, are thus given to the ed, or their ravages prevented, is a subject of landawinds; and only a dry and inert remnant left, for fuble curiosity and speculation: but the fact of the ter, Marle, &c. to co-operate with. The sod left ourpose being achieved, is all important; and in numerous instances, incontestibly proved. That spring ploughing is generally inefficacious, is too frequently and fatally known. tustances of failure to produce leave your yard, or stables; not, however, neglecting the effect mentioned, by fall ploughing, have been adduced. On examination into the facts of some, it is found, that the operation has not been performed either well or in due time, and only partially; and in other cases, either uncommon grub years, or other peculiar circumstances, have occured. great balance of facts is, most assuredly, favorable to soils, on which it is not highly beneficial. this practice; and warrants its adoption. It is so heneficial in other respects, that it should be followed, even without regard to its effects on the grub. Some acute diseases defy common remed es; and extraordinary inundations. Nevertheless, medicine, and medical skill, and preventatives of overflows, should not be set at naught. Nor should any beneficial operation in husbandry be disregarded, because it does not in every instance succeed.

Fall ploughing enables you to plant corn carly; and it is better thus to risk spring frosts; which less injury to your plants, than do early frosts, in au

It is alleged by several highly respectable farmers, ties towns, mas, & manufactories, but on every farm. led (b) In a letter to the Society, on the information Homan ordure, or night soil, however contemptu- of one who actually experienced the fact, it appears, seem indubitably to prove them to be migratory; and to shew the consequences of leaving part of a field unploughed in the autumn; which affords harbor for grubs, which may from thence wander over the fall bloughed portion. Several farmers have escaped the III. Plough and harrow soddy fields in the fall; grub, by steeping the seed corn in spirits of turpen-

Soddy grounds should be rolled, and well harrow. sod; and by thus excluding air, and by clean, shallow, grubs, or the eggs of their parent, (be it a beetle, and frequent stirring, so as not to disturb it, to promote its decay without a capacity to grow The dead fibres, (nature's restoratives,) are thus retained on edge, either dries uselessly, or vegetates with all

its pests.

The Roller is too little used; and mistakenly, supposed to consolidate too much: whereas it erushes and separates clods, and loosens the soil. On clay and heavy ground, the Spiky Roller is best, as it is on all hide-bound surfaces-of meadows and moving grounds particularly; but, like all other operations, rolling must be performed judiciously, and adapted The to soils and circumstances. Few, indeed, are the

Sow no more ground, with winter grain especialy, than you can perfectly till and manure; one well dressed acre, being worth many negligently treated. Manure, good tillage, and late sowing, which latter dams and mounds resist common floods, yet yield to is only justified by the two former, are guards against the Hessian Fly. If even to good farming, misfortune occurs, losses are not accompanied by self reproach. Shed Oats, or that grain sown with the wheat, sometimes attract the Fly, by its being more forward and tempting; for this insect has no predilection for wheat, although our interest to this grain, \*Many years ago, a German woman kept cows, in a induces our peculiar attention to its misfortunes; town in Maryland; and derived a plentiful support from but, like Radishes sown with Turnips, success does not always attend the experiment, though well worthy of trial

> If you cannot get lime, or animal manure, mix earths of different qualities and textures, or plough in green manures, such as buckwheat, clover, &c. Turn them in deep, to prevent evaporation in gasses, which would occur in summer fallows, superficially ploughed

> For composts, move old fences, and plough up their sites; thus destroying hedge-rows, and other not

the sale of milk, cream, and butter. Her cows were remarkable for their goodly appearance, and every body preferred dealing with her, to being supplied by other cow-keepers. Envy was excited; and she was narrowly watched. At length it was discovered, by her rivals, that she daily emptied the contents of the urinal, into the food of her cows. She acknowledged this to have been the magical cause of the superiority of her butter and

Kidney scible substances, in long and A principal crop of kid drued by the plough. Go into the first week of this compost leaves and wood soil; also will soon be compensated, not only by the superior qualout the middle, an , low places, washed thither by rains Any of the complaces, washed thither by rains eam-cc support, and throw out the beds of stagnant ponds Limfor see he latter, is beneheial, and plaster operates woncerfully with the former, on the decayed vegetable matter, as do ashes on pond or river mud. -D'aster, in compost in which vegetable matter is \_ORxed, is more beneficial than lime. Whether salt stee or not a manure, is not well ascertained; but it his had success in small quantities. The Chinese make much use of sea water as manure, on lands near their coasts; and those in the interior, scatter salt over their fields, before they are tilled. The same practice is pursued in Hindostan.

(To be continued.)

#### NOTES.

(a) The following out presents the form of a STERCORARY or, to speak more plainly, manure pen; for of all things we most dislike hard words, particularly in writing like these. We are indebted for this cut, to the politeness of the Editor of the "Grozz," a valuable periodical publication, in New York. A plan of one of these mamure pens, is to be found in the first volume of the Mc burns of the Philadelphia Agricultural Society, repre stated more minutely than this one; with valuable re-Though, Judge Farens; and much is to be learned from the writings of Joseph Quancy, Esq. on the construction and uses of the stereorary.

These contributes, however, we think, are rather to be regarded as reinimered's, requiring much labour, and the advantages attending this sort of dunghill, will involving much expense; therefore, better suited to the appear at first sight. The wall, by confining the dangcondition of wealthy men, who have already progressed extensively in a checkford improvements.

For the present, we should be glad to see Maryland farmers improve, were it only so far as to have well conthe whole uniter. If they will only do that much, the incre use of manure, farmity, produce, and gain will soon enable them to do more.

#### FRUIDE SITUATION FOR A DINCHILL.

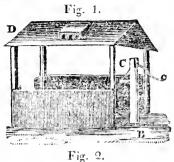
"The situation last coloubated for the site of a dura I it, is that which is nearest to a level, with a bettom capable of retaining moisture, and a possible, covered with a shade. The whose should be melosed with a wall, of at least four or five fact in height, with an open space at one end for carting away the dung. If the bottom is not elsy, it should be laid with it, and paved above, either with broad flags, or the common paving stones, used for Streets.5 At the end opposite to where the opening is left, a reservoir should be day, which might either be Find with elay, and built round with stone, or litted with a wooden cistern, made water-tight, into which a punit should be put for drawing off the monstuce daily.

This reservoir should be situated at the most depend ing part of the daughill, with an opening in the wail in media ely opposite to it. The parement should have a number of commer, of at least one or six inches deep, and the same width, all tending lowerds the opening; these channels should be well pared, and filled with they will be Lept of en, and the moisture find a ready "Flor Porder" of magical efficacy. At the close of his mand, and all, from one extremity of the union to the other passage to the reservoir. For better explaining the idea, we refer the reader to the annexed plan of a daughill, wir , me proposed channel and reservoir.

Every dangintle nould be so strated as to have its lungof t sides run from east to west, surrounded by a wall is and covered with a roof. The wall on the south side of the doughth should be of such a height, as to prevent catively the sua's rays from touching the dang; on the other three sines, however, there is no necessity for its

\* The American Former may find it convenient to lay a Ascr of thick plank.

The expense of a roof, which need only be thatched, ity of the dang, but by the conveniences which it will not know. He thinks, the march of these destroying leaflord; as it may easily be converted either into a pigeon-gions, was southward. Quere? Were these the common house, a poultry-house, or a store for the smaller hus-corn grub worm, and may they not make their appearbandry utensils.



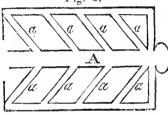


Fig. 1. Represents an elevation of the building for the recep marts, by that zealous and enlightened friend of the tion of dung; B. the reservoir; C. the pump; D. the roof flough, Judge Freens; and much is to be learned from Fig. 2. Represents the ground plan; A. the main channel aring to the reservoir; a, a, a, a, the side channels, terminatug in the main one, A.

. identifies attending dungfills constructed in this wayvill keep it from heing scattered about and lost, and will dso preserve the sides of the dunghill from being dried and rendered useless, by the action of the air. The shade will keep it from being chilled or deprived of its salts, structed from pens even with thatchel covers, so us to by the rain passing through it; the wall will also prevent confine and water their earlie in well listered peas, through the moisture from escaping at the sides, and conduct it to the bottom. The pavement will prevent it from sinking into the earth; and the channels will conduct it to the re-ervoir: from whence it can be drawn by a pump into a barrel placed into a cart, and either spread immediatecompost, or thrown upon the dunghill itself, it being the sest of all forments.

### To increase the quantity of manure.

The quantity of manure may be increased by laying a ayer of earth, leaves of trees, or any other suitable sobdance, on the leathon, and similar layers may be laid hroughout the dungfull, the moisture passing through them, the same being returned from the reservoir, will completely saturate them; the entire will undergo a positive which can be so mereased, that the form may be kept in a state of constant and profitable productive-The buildings should be, if possible, so placed pass by a channel into the reservoir."

(b) This reminds us of the poor French Prisoner releas up meety in very small papers, sold it at the fare, for successful speculation, some purchaser bethought him to enquire how the "powbr" was to be applied - "Dat," said the Frenchman, dat be une autre chose, me suppose you squeese him on de back of he neck, and wen he open his moute you will put a de pooder down he trote." —So with the grubs, if we could make small pit falls being concentrated to a point with the twentieth part of enough to catch them all, they might, doubtless, be detected in the travel, and of course, in the tweatieth part of the stroyed; but quere, suight not the holes to be baited with time, which would be requisite in our country. something of higher relish to the worm, than the corn?

since, in the neighborhood of West River, in Anne Arun- of England produce an effect among all classes of her del county, a kind of worm, or entierpillar, cut off whole people, especially the labouring classes, whose weges are fix

, weeds, (out before going being so high; six feet from the ground will be quite suf-fields of corn, near the ground, in a few days; -he parscible substances, in long and ficient; and the roof can be supported by pillars, as in ticularly recollects seeing them in a field, on the land of John Johns, Esq. and that ditches were cut, perhaps about a foot deep, to stay their progress from one field to another. Whether it had the desired effect he does ance in such numbers periodically, as the locust is said to do? What seasons or soils are most productive of them? And what changes of form and character do they undergo? Why do not country physicians, who often unite the vocations of the lancet and the plough; who have the means, and ought to have the science requisite for such studies, why do they not turn their attention more to these things?

"A wit's a feather and a chicf's a rod-"An useful man's the noblest work of God."

For the AMERICAN FARMER.

### 1 OMESTIC MANUFACTURES...No. 3.

HAD we anticipated the masterly and patriotic address of the Philadelphia Society for the promotion of domestic industry, before the publication of our first number on domestic manufactures; we should gladly have remained silent-we should have blushed to speak on subjects to he simultaneously discussed in a manner far transcending our ability. And now, could we know that all readers of the American Farmer, would peruse the numbers of that excellent address, no more of our comparatively trifling essays should appear. But our belief to the contrary, and the expectation which may have been justly excited, must be our apology for continuing our numbers. We are happy to find, in what we have seen of that grand production, some notions which we had conceived, fully confirmed; and we hope, not a little praise may be rendered to its author, if some of the bright rays, it has shed upon ourselves, should be occasionally but faintly reflected upon our readers.

There has long prevailed an opinion that manufacturing establishments are, in their effects and tendency, injurious to the morals and dangerous to the government of society. And from some unaccountable cause, so well founded has it been supposed, that few have presumed to question its truth. Undoubtedly it originated in the contemplation of such establishments in other countries, particularly in England. Without any allowance for the agh coloring of the pictures generally presented to our view, there are reasons enough to persuade us that the opinion is altogether erroneous, especially so in regard

to our own country.

The magnitude of the evil, in so far as it is thought to pring from large collections of labourers, must be greater in England than it can be in the United States. The population of Great Britain exceeds that of the United States. file extent of the former is not probably more than one wentieth of that of the latter. So that if all her factories were equally scattered over all our states, their magtatudes would be vastly diminished or otherwise the distances between them would be vastly increased. In either case, if the moral and political state of the two countries were the come, such turaulthous assemblages of manufermentation, and produce a vast quantity of manure; a facturers, as we are informed, sometimes rise up in England and threaten to shake the throne of the kingdom, could never be formed in the United States Besides Great Britain manufactures enough to supply three or that the urine from the stable, cow-house, &c. would four times her own population; our object is to supply only our own. We should not therefore need more than one third or one quarter, of the number of hands she ed in England, and being destitute of the means of get employs; supposing our use of muchinery proportion-ting home, pulverised some rotten wood and putting it this morely in very small papers, sold it at the face. Tork endanger our government, were it as grierous as that of Great Britain; ina-much as hers continues to stand the stoutest blows of all her own manufacturers, three or four times the number we require, and capable too of

Fut the moral and political state of the two countries (c) The Editor recollects, that some ten or twelve years are by no means the san.c. The government and taxes

ed at the minimum price of the break and water of human subsistance, which can never be produced by the mild govern-ment and liberal principles of the people of the United States. And would it not be grantying to the feelings of every American citizen, to reflect that the garments, he wears, are the workmanship of men enjoying the blessings of his own happy government, well paid for labour. and not compelled to work for a few pence a week, scarcely sufficient to prevent starvation; and if he pays a few cents in the yard more for domestic manufacture on account of the more liberal wages of the workmon, would not his heart swell with the noblest feelings of humanity on considering the cause of his paying it!

But what has been taken for granted is not true does not appear from facts, that manufacturers, even in computations of effenders and purpers in England, it appears, that their number in the manufacturing counties, in proportion to the population, is uniformly far less than in the agricultural counties. In Lancashire, Yorkshire and Stafford, manufacturing councies, the effenders are on-Iv one in 2500; in Norfolk, Kent and Surrey, agricultu Thus then the introduction of manufactures would amounts to at least six thousand. tend to improve the morals of an agricultural people. pears not improbable, when we reflect that, idleness is their time, during which, they cannot be innocent.

Nor do we believe that there can be found more evil. ists in an equal number of the inhabitants of a city, thousands. especially a port, which, however small, affords the

abundance of fruits.

person can be contaminated with the loom, any more than with the axe or with the plough. And all the bad consequences that can possibly result from the congregation of individuals in manufacturing establishments, effectually than in any other country, at present on the face of the globe. The example of Col. Humphreys' factories in Connecticut, will prove this assertion, if it government, and the character of our people.

After all, an object of the greatest utility, and of absolute necessity to the future prosperity of a country destined to give birth and growth and comfort and joy, to countless millions of inhabitants, is not to be abandened, if it be certainly productive of some evils inseparable from human nature, in its present imperfect state

OPITICI AMICUS.

THE WASTE OF LIFE

Anergus was a gentleman of good estate, he was bred to no business, and could not contrive how to waste his hours agreeably; he had no relish for any of the proper works of life, nor any taste at all for the unprovements of the mind; he spent generally tea hours of the four-and-twenty in his bod; he dozed he met with company of his o'n humor. Fire of which had transformed him from a brute to a min. six of the rest he sauntered away with much indovery a glutton, or so entirely devoted to appetite; weste, without the least tendency to usefulness? but chiefly because he knew not how to employ his

Thoughts better, he let them rove about the sustenance | character as this, it brings to my mind some scraps of his body Thus he made a shift to wear off ten of Horace, years since the paternal estate fell into his hands; and yet according to the abuse of words in our day, he was called a man of virtue, because he was scarce ever known to be quite drunk, nor was his nature much inclined to lewdness.

One evening as he was musing alone, his thoughts happened to take a most unusual turn, for they east a glance backward, and began to reflect on his manner of life. He bethought himself what a number of living beings had been made a sacrifice to support England are more debased, more immoral or wicked his carcase, and how much corn and wine had been than other classes of people. The contrary seems well mingled with those offerings. He had not quite lost established. According to the latest and most correct all the arithmetic that he become when he was all the arithmetic that he learned when he was a boy, and set himself to compute what he had devoured since he came to the age of man.

"About a dozen feathered creatures, small and great, have one week with another (said he) given up. ral ones, they are one in 1600. This is an undeniable their lives to prolong mine, which in ten years which occur on such occasions; one in the first

And this, however contrary to the prevailing faith, ap-half a hecatomh of black cattle, that I might have luxurywomen and children, are, in general, pretty busily em. Thus a thousand beasts out of the flock and the herd ployed, while thousands among the families denominate have been slain in ten years time, to feed me, besides ed agricultural, are, idle and roving a great portion of what the forest has supplied me with. Many hundreds of fishes have in all their varieties, been robbed in a given number of labourers in factories, than ex. of life for my repast, and of the smaller fry as many

" A measure of corn would hardly afford fine flour greatest possible facility for the generation and propagation of corruption in myrals. The seeds of all sorts of enough for a month's provision, and this arises to aevil are plentifully sown, and they spring up and produce bove six score bushels; and many hogsheads of ale and wine, and other liquors, have passed through this There is no evil in the nature of the labour itself. No body of mine, this wretched strainer of meat and

" And what have I done all this time for God or man? What a vast profusion of good things upon an can and will be prevented in the United States, more useless life, and a worthless liver? There is not the meanest creature among all these which I have devoured, but hath answered the end of i's creation might not be unerringly inferred from the nature of our better than I. It was made to support human nature, and it hath done so. Every crab and oyster I have eat, and every grain of corn I have devoured, hath filled up its place in the rank of beings with more propriety and honor than I have done: O shameful waste of life and time !"

> In short, he carried on his moral reflections with so just and severe a force of reason, as constrained him to change his whole course of life, to break off his follies at once, and to apply himself to gain some useful knowledge, when he was more than thirty years of age; he lived many following years, with month on which that day of the week will fall in hat the character of a worthy man, and an excellent year. Christian; he performed the kind offices of a good neighbor at home, and made a shining figure as a patriot in the senate-house; he died with a peaceful conscience, and the tears of his country were dropped upon his tomb

The world, that knew the whole series of his life, stood amazed at the mighty change. They beheld away two or three more on his couch, and as many him as a wonder of reformation, while he himself were dissolved in good liquor every evening, if confessed and adored the divine power and merey,

But this was a singular instance; and we almost lence: the chief business of them was to contrive his may venture to write MIRACLE upon it Are there meals, and to feed his fancy before-hand, with the not numbers of both sexes among our young gentry, the largest class, is, it understood, already laid, and the promise of a dinner and supper; not that he was so in this degenerate age, whose lives thus run to utter work of building to commence the present season.

Nos numerus sumos, & fruges consumere nati. ..... Alcinoique Jurentes Cui arlehram fuit in Medias dormire dies, &c.

PARAPHEASE. There are a number of us creep Into this world to eat and sleep; And know no reason why they're born, But merely to consume the corn, Devour the cattle, foul, and fish And leave behind an empty dish : Tho' crows and ravens do the same. Unluckly birds of hateful name : Rayous or crows maght fill their places, And swallow corn and coreasses Then, if their tomb-stone when they die, Ben't taught to flatter and to lie. There's nothing better will be said. Than that they've cat up all their bread, Drank up all their deink, and gone to bed.

There are other fragments of the heathen post, of his satires, the other in the last of his epistles. " Fifty sheen have been sperificed in a year, with which seem to represent life only as a season of

> . . . . . Exacto contentus tempore vila Cedat uti conviva satur . . . . . Lausisti sutus, edisti satis atque bibisti; Tempus abire til i.

Which may thus be put into English, Life's but a feast; and when we die Harace would say, if he were by, Friend, thou hast cat and drank enough, 'Tis time now to be marching off: Then like a well-fed guest depart, With cheerful looks, and ease at heat : Bid all your friends good night, and say, You're done the business of the day.

### PLAN OF A PERPETUAL ALMANAC

1							
Ге	b.	$F_{\epsilon}b.$		Jin.	Jan.	Sept.	
Mar	ch		May		April	1	Ju
No	v.	Aug.	•	Oct.	July	Jaly.	
	1	2	3	4	5	6	
	8	9	10	11	1.2	13	1
	5	16	17	13	19	20	2
	2.2	23	24	25	26	27	2
2	9	30	31				
	1	819 <b>1</b>		18	26We	dnesday,	
			ednesday,		27—Th	irsday.	
			iursday,		29Sut	urdan.	
		22—Fr			29 Sur		
			turday,		80-Mo		
		$24M_0$			31—Tue		
		25Tt	iesday,			fin:tun.	

Rule, to find the day of the month. Observe the day of the week annexed to the year in the first column, look io the table for the month, and the numbers standing under each month are the days frhat

Note .- In leap year (where the day of the week to the first column is in italics) January and February most be taken in the columns in the table where they are set in italies -- in other years in the preceding columns.

### KITTERY, (MAINE)

Is destined to become a grand naval depot, for the northern section of the union. at this place, the Ranger, of 28 guns, America, 71; Portsmouth, 28. Crescent, 36; Congress, 36; and Washington, 74, were built; all of them allowed, at the periods in which they were con-tructed, to be well modelled and substantially built. In addition to the building of these war vessels, the timber, and her materials, are collected, to build a ship of the line and

When I meet with a person of such a worthless Marine Bank of this city, are, it is said, in circulation. Counterfeit 10 dollar bills, altered from twos, on the

<sup>\*</sup>See the Address of the Philadelphia Society, No. 5, and Colquboun on Indigence, there quoted

To attract the reader's attention to the following reflections on "THE WASTE OF LICE," it is enough to say, they are from the pen of the illustrious FRANKLIN.

### Miscellancous Communications.

ON THE MURRAIN,

A PISTASE INCIDENT TO HORNED CATTLE.

TO THE EDITOR OF THE AMERICAN PARMER.

what I may add at present

animal life, are governed by certain laws, and therefore pursue a given course, as the healthy operations do-the first enquiry on such subjects is, to ascertain their nature, character and name, that we may experience in controlling them, rather than be left unarmed to provide for every exigency as it will arise to our view in the progress of the disease.

The disease called Murrain, or bloody water, although known from the earliest history, viz. the writings of Moses, cannot, I believe, he said ever to have been so defined or described, as to distinguish it from other diseases, very different in their origin and their nature It is even doubtful whether the term oriab industry perverted or misapplied, whenever there fever must. occurred a parcity of such terms. Such appears to the Murrain to be in those respects.

The statements published, concerning the prevailarising from incidental causes; a disease, which all or less aggravated by the corresponding season.

usual, especially in brute animals, from their different pastures, with sympathetic and mechanical affec

lence of the local affections, as it often does in the all animals, causing obstruction and other diseases of the fautt arises from the neglect of their dairy maid-

human species. I shall be reafter shew, that brute the bowels, extensively prevalent as the cause, and animals are not susceptible of such influence; but it deleterious as the effect; since the alimentary funcis not very material, to any useful purpose, in the mons cannot be stopped, without speedily ending in present case. Exclusive of such influence, are not mortification, however simple the cause of the obthere obstructions, in all animals, more prevalent and struction may be. And what are the remedies in this virulent in some seasons than others, according to the state of things? In vain would we explore the causes want, or excess, or morbid condition of the bile, and and character of such things, unless some useful SIR-THE justice of the remarks contained in other secretions belonging to the alimentary canal, practical deduction can be made from them. It is my former number, would, I have no doubt, be ad-caused solely by contaminating food and drink, act- not in the miseries even of brutes, that fancy would mitted, by any one who would undertake to treat on ing in connexion with certain states of the weather, saunter, however curious might be her developthe subject which gave rise to them, and may there- and without primary fever, as in choleras? Panic af- ments; and wretched as is the state of our learning in fore serve as a suitable apology for the crudity of fects the mental, as the fog does the optical vision. their concern, some little aid, it is hoped, might be Would you, sir, really think that you saw in some afforded in an affair so simple, as the present, unless Knowing that all derangements in the functions of dozen dead cattle in Pennsylvania, that Murrain, so the writer of this is grossly deceived in his view of it. celebrated in history-so memorialized in everlasting Record, by having been made one of the curses on bladder, are then, in brute animals, of the few, which Pharaph—one of the Plagues of Egyp :—' Behold resemble the human species. The obstructed bowthe hand of the Lord is upon the cattle, which is milels would not kill in a day, but it is obvious the disbe able to anticipate their results, and to profit by ah the field; upon the camels, upon the asses, upon the lease would have existed long, say a week before it oxen, upon the sheep; there shall be a grievous was noticed, and treated only in its extremity, when Murrain." In England, and on the continent, as in every thing adapted to its early stage would only ac-Egypt, devastation, the most universal and over-cellerate its issue. I will not dwell here, on the fuwhelming, has ever marked its train. Lancisi esti-tile treatment and trilling remedies generally adminmated the loss of cuttle in Italy, in one year, at thir-listered to brute animals, in cumparison with the huty thousand. There it was attended by inflammation man species. 1st. Stock effected with bowel or of the bowels and bladder; not, however, proceeding bladder complaints, in spring or fall, should be imsolely from actual obstruction of the passages, caus-mediately withdrawn from their pastures and usual ing death by mortification; but accompanied by a vatering places, allowed no food but nutritive; deginally purported more than a general meaning; and febrile disorganization of all the functions; producing mulcent and diuretic drinks. 2. The state of the if it had any specific import, that seems to have been rapid dissolution, in various ways, as every epidemic evacuations should be carefully watched, and when

me to have happened with the disease prevailing in among cattle; and so represented by all the writers paired; the object is to counteract stricture and in-Pennsylvania; a disease, in my view, as to its origin on it, from coses to Sir John Sinclair. Can it be flammation, which must arise from the irritation of and influence, extremely local and limited, in com possible that a plague should exist among the cattle the bowels, by the morbid ingesta or icentions thrown parison with what all ancient history has represented of Pe msylvania, for months, ki fing a dozen of them? into them. 3 With the bleeding must be used, and truly, that it must be brought from Chio?

ing disease, like almost every thing we get on such ly, although provident nature has armed her bestial with two bottles of linseed oil, daily. 4. Injections subjects, savour more of the luxuriancy of the mar-race with superior butanical skill, yet, in the haste of the linseed oil and salts, should be used twice a vellous, than of sedate and minute description; and of hunger and lust for dainty food, their solid learn-day, taking care in using the pipe, not to poke it inappear to be written under the influence of panic, ing may not always discriminate. The poisonous to the gut, if it should reach the obstruction. 5. which ever dwells on remote and unmeaning contin- weeds abound, and compel the skilful botanist to Back raking should be tried, but cautiously and gencies, while it carefully shuns its real object. I it- cull the bitter with the sweet, or forego his treat; tle, however, as is reported concerning the symptoms the Hellebore, the Johns Wort, the James Town, of the disease, -- that taken with the dissections, its the Lark Spur, the Crow Foot, the Fox Glove, en-dressed with tar, if the above remedies do not act to extent, and issue, exhibits, I think, very plainly, no twine the salubrious shoots; and a mass of indigestible counteract internal inflammation. 7. If the tongue more than a prevalent derangement of the digestive herbage is swallowed, where the selection is scanty, is filthy and the oils do not act, give half an ounce of and bilitary functions, causing rapid and violent disease and of both more and different kinds abound in one caloinel and as much aloes daily, in addition, and and death, by obstructing the alimentary canal, and year than another, and their morbid efficience more finally, if either under the powerful operation of these

may be shown to be the fact; unless very material and confined in their range, and must extend their districts hot whiskey toddy with juniper berries boiled in it. striking symptoms and circumstances are kept out of according to the accidental climate and products of The disease presents, as its leading features, in of virulence and the subjects within their reach its constant march, obstructed bowels, attended, as To such causes have always been ascribed such dis- to illustrate the remarks I have here made. eases as exist at present in the cattle of Pennsylvania. The animals from abroad, less accustomed to the tion of the bladder; a state of the urine, indicating new climate and mode of living, are more susceptible

It so happens, that diseases of the bowels and threatened with the prevailing disease, let blood, and The Murrain is defined by stymologists, a plague repeat it daily, while the strength is not much imfull doses of the mildest purgatives, as a bottle of In the spring, when green herbage is eat voracious-caster oil repeated daily, or 2 nounds of glauber salts. early in the disease, before inflammation takes place. 6. The belly should be scalded with hot water and remedies, notwithstanding copious nourishing drinks animals at all times, are subject to as casualties; and The muddy pools, too, which black cattle prefer, poured into the stomach, or the total failure of them, which, in all, is sometimes apparently epidemical, are apt to be contaminated, and either surfeited with the strength should decline fast, the tongue get black when the existing causes are very general, and act-staguant rain, or digested by drought to a poisonous and dry, and the beast drousy, give 20 grains of ing on a predisposition, as, in the present instance, condition. These causes, of course, are not very opium and 20 grains of camphor, every 6 hours, and

Notwithstanding my aversion to write on a subthe year, and their effects, graduated by their degree ject, in which I feel myself a novice-it will be necsssary for me to trouble you with another number

#### BUTTER.

The following is given as an improved method of pretion of the bladder; a state of the urine, indicating new chinate and mode of hing, are more susception by its appearance, no more than that; the inflammation and mortification in which the obstruction return then, but fondness for the marvellous, leads us to look leaves of trees, &c. Boil two ounces of saftpetre in a suits, and in no wise exhibiting these very general, & for pestilence in every blast—to seek in remote and quart of water, and put two or more spoons full, accordsuits, and in no wise exhibiting these very general, & possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease may depend on an intermediate of the possible this disease. This has been proved by twenty years' experience, and the possible this disease of the fourt prices from the possible this disease of the fourt prices from the possible this disease.

### Lieutenants and Midshipmen

OF THE UNITED STATES' NAVY.

IN my former letters. I endeavoured to show, that it is the wish of your country, to have an efficient navy, and to point out to you the mode to be pursued, to qualify yourselves for the high trust which is reposed in you.

My present intention, is to satisfy you, that the course I have recommended, is the more necessary inaxmuch, as every effort is making, on the part of England, to prepare herself for the contest, which in all probability, will sooner or later take place between the navy of that nation and our own; a contest which, when it does happen, will, no doubt, be productive of much bloodshed on both sides, and will owe its success as much to the skill of those who direct it, as to the physical force employed.

You have seen, in the events of the last war, that success does not always depend on numbers; bad this been the case, our little navy, according to the predictions of those who had been educated in a confidence of the invincibility of England's fleet, would have soon been "swept from the ocean," but the contrary was the case; we not only maintained our ground there, but made considerable augmentations to our force, as well by the capture of the enemy's vessels, as by new ships It was more to the skill of our commanders, and the good discipline established by them, and their prudence, and forethought, than to the qualities and magnitude of our ships, that this success is to be attributed; -without this skill strength would have been useless in their hands, and our ships, in their encounters with those of England, would in all probability, have shared the lot, which has so often fallen to those of all other nations.

If it should be asked, how this skill was produced. in a nation so young, and whence the forethought related, in the slightest degree, to their duty.

when their keels were laid, attend to their construction, in commission, in the British navy, con-by horses, I thought he might possibly be too partion, their armament, equipment, and discipline? and sists of one hundred and thirty-seven; viz 24 sail of tial to the Ruta Baga, or Swedish turnip, a root I to the instruction of those who were to second them the line, (not half officered and manned,) 45 frigates, had never seen before his publication. We, unletterin their duties? Nothing that related to their ships, 57 sloops of war and brigs, and 11 yatches was considered derogatory to them; every thing even best officers of their navy are selected to command, although we know that there are a great variety of the most minute, underwent their inspection; what and their best seamen to man them; the rest are every kind of plants. However, as Mr. Cobbett the most minute, underwent then inspection, what they permitted to retire on half pay, and seek employment had pledged his veracity on the value of this root, I learnt, they imparted to others; the whole efforts of in other services; and it has been recently declared, their minds, were devoted to a pursuit of the know-by more than one member, on the floor of parlia-ledge requisite to perfect them for the stations they ment, that the British navy is now in a better conoccupied, and the responsibility they were to encoundition, than it has ever been at any former period. ter; it was by such means, that they obtained, what, The persevering, indefatigable and enterprizing and some of the white kind, which I sowed about

produce this result, those of England, blinded by an the pressure of the business of the admiralty, that a severe frost, they remained in the ground until Feb-(a sentiment produced by their numerous and easily pose the board, was lost by a large majority,

obtained victories over the navies of Europe) and periority, neglected those essentials, which can may be attributed this extraordinary desire now to alone render a ship of war efficient.

the infrequency of meeting an enemy some time pre- the concerns of its navy? vious to the war; habits of inattention among both officers and meo, and a laxity of discipline, in all with what it was at the close of the war with France. the essentials of a man of war.

guis, the men were employed in polishing the train-that at the conclusion of the war, (alluding, I preing bars, elevating screws, copper on the bits, &c. sume, to the war with France) more than one half and other work, calculated to show the ships off to of our ships of the line were in such bad order, and the hest advantage

assert the rights of England against France and beaten a French or Spanish ship, who were more than Spain; and the question was not as to the state of themselves; but I will stake my existence, had an discipline on board of them, but as to the number American line of battle ship fallen in with one half employed.

In June, 1812, when the war with Great Britain None but their bravest and best disciplined ships, were sent to cruise, singly, when there was a probability of their meeting ours, and seldom on our coast, your country again unhappily be involved in war, it except in squadrons; our ships, few in numbers, em- will rest with you to fulfil the expectations she has the nation.

When the war closed, the first care of those who arose which brought the conflict to so honorable a administered the affairs of England was, to prepare termination? I answer, that doubts of their own for a new contest with us, by eradicating the evils abilities, produced, on the part of the commanders, which had crept into their service; their navy was the most unremitting attention to every thing that reduced; their old ships broken up, or sold, and new ships of classes corresponding with ours, were built. Have you not seen commanders appointed to ships At present, the number of vessels of war, of every

in other navies, is only acquired by a long and tedi-jadmiral, Sir Geo. ockburn, is now one of the the toth August last. I sowed the three parcels ous servitude. And are you not aware, that our be-plords of the admiralty; and it has also been asserted, separately from each other, broad cast The yellow lief in the skill of British commanders, and the dis- in the same place, that be is most assidnous in the roots, in December, appeared to be exactly similar; cipline which appeared on board their ships, as well performance of his duties in the board—that from the I could discover no difference in the size or davor, alas their general successes, produced in our rounds an time of his appointment, up to that period, he had though both parcels of the yellow were out from Mr. idea, that they were encludes which required every extense allowed immself any cessation from business,— C bbett. The white roots were not near so large ertion to make ousselves equal to. The exertion plans for the improvement of the navy, deserving as the yellow, some of which were three or four incalled for was made by those who then had in charge the consideration of the board, are pouring in from ches in diameter, although sowed broad cast, and the support of the national honor, and their success all quarters, and the business of the admiralty too thick, at the late season, the 15th of August was far beyond their own and their country's most had increased, beyond what it was at any former. There were but few of the white roots large enough period , and notwit-tanding the great reduction of to boil. While the officers of our navy were struggling to the number of the ships of the navy, so great was Having neglected to take them up before the first

To the reverses experienced in their contest with attributing more to a skill, which was believed to be us, and to the inferior discipline of their ships, cominherent and unequalled, than to their numerical su-pored with that of ours, even at the close of the war, make their navy more perfect; and can it be, for a Fr. WILLIAM JAMES, in his voluminous, (and as moment, believed, that there will be any, the slightregards ourselves, illiberal) account of the naval oc-lest relaxation, while admiral ( ockburn, who knows currences between Great Britain and America, enu- so well the causes of our success, maintains his premerates, as the causes of the disasters which hap-sent influence in the councils of that nation, or has pened to them, at the commencement of hostilities, health and strength to devote his energetic mind to

Compare the present state of the British navy I shall use the words of the " Post Captain," men-Instead of the sturdy occupation of exercising the tioned in my former letters, -" It is beyond a doubt, so infamously manned, as to render them unequal to Ships in this state, were considered sufficient to contend with a disciplined enemy: they would have of them, they would have been taken."

England then, it appears, has discovered her error; commenced, the British navy consisted of seven she seems determined to guard against it in future hundred and forty-six ships. Before the war had she has no naval nation to apprehend but the United closed, they found, by dear-bought experience, that States, and all their efforts are directed towards the the practice which had been adopted in regard to means of preparing themselves, to struggle with the other nations, must be varied with respect to us. navy which is rapidly rising on this side the Atlantic. ployed all their attention, and each commander felt formed of you, in supporting the character which himself individually responsible for the character of has been established for you, or bear the shame which ought and will pursue you.

A NAVAL OFFICER.

FOR THE AMERICAN FARMER,

### RUTA BAGA.

KNOWING Mr. Cobett to be ordent in all his The ed clod-hoppers, do not understand botanical terms, concluded to make a small experiment. A friend procured from Mr. Cobbett, and I procured from

idea of their own superiority over all other nations, motion to reduce the number of the lords which com- rusty, when I rook up the largest, and covered them with earth. I took them up again the latter part of

March, and found them then, as good as they had been the early part of the winter; the small roots yet remain in the ground. A few days ago I had some taken up and boiled, and although they are not so sweet as they were in the fall, they are now very

As to this root being so very productive, or valuable for feeding stock, I have no expern non, but the small experiment I have made, his convinced me that it is a very valuable root for the table. I have may now be had. never seen its equal as a turnip, either as a root, or for sprouts in the spring. Its product greatly exceeds the cablinge stalk, and it is very simil ir in taste, and if not better it is certainly not interior; but docfors will differ, and there is no criterion for taste, will not be made in any case where it can be avoidbut as to myself, I would prefer the young ten ler ed, as it is quite apparent, that all the extra num Rula Biga to the cabbage sprout. If the first st in bers will be wanting, to supply the unexpected, and minutes, having care to stir the water all the while, is cut carry in the spring, it wilt put out four fold, we believe unparalleled, increasing demand. and if properly attended to, I make no doubt, would produce young, tender sprouts, until peas, lettuce, carly potatoes, and other summer vegetables come The writer of the letter from which we make the following water into the barto perfection. The roots remaining in the ground lowing extract, well accept our sincere thanks. It is a rel and stir it a second time, and every day it must all winter, the remains from the produce of two matter on which information has been much wanting, all winter, the remains from the produce of two and that want he has in a great measure supplied.—onness of seed, has afforded as many sprouts as The reader will received, that line and a decoction of would have supplied several families; they are now sassourds root have been mentioned in preceding numvery productive, and if they had deen used or cut iners of this paper, as probably efficacious for destroying time it has been stirred. more profusely, they would have been more producive.

Every house-keeper who has a garden, should sow Angust, with Ruta Baga, for spring sprouts, to be County, who preserves his tobacco plants from the fly, left in the ground all winter, after selecting and taking up the best roots for holling. The pea beds, dy translated from the Prench, for this number, a rethe early notatoe bed. Sc. Sc. Sc. which are genethe early potatoe bed, &c. &c. &c. which are gene- ceipt of a preparation of a liquid for killing insects on ble if covered with Ruta Baga.

it is, it will certainly take place of every other kind; or more of them would accomplish the desired end. for it cannot be excelled in quality. Those intended for spring sprouts, ought to be sown later-a small turnip root will stand the frost better than a large one. They might be taken up in the fall, and planted out in the spring; but that trouble may be our state deeply; and as the cultivation of it is rapavoided by late sowing, and giving them a slight shelter in severe weather.

on Mr. Cobbett's method, and will hereafter, perhans, give you the result. My experience is very limited, as yet; different seasons will produce difcing, for his ardor, in some measure, compelled every farmer to pay some attention to the subject | to the notice of the people of the United States.

Head of Chester, May 14, 1819.

Some little alarm has been excited in Augusta, ed would share the same fate.

### CALL OF CONGRESS.

by the suggestion, at first in the Philadelphia Jurera, of niversally made use of; and if you think it is worth a a probably anticipated convention of on tress. A number of place in your records, you can make an extract beer of reasons have been suggested in justification of place in your records, you can make an extract been suggested in pustification of from my letter. even in our judgment, to warrant such a procedure.

### BAUTIMORE.

FRIDAY, MAY 21, 1819. :0:

Those persons who have been disappointed in their applications for complete files of this paper, are informed, that a second edition of the first three numbers have been published, and that entire files

If hy any mistake or accident, the file of any sub-

#### TOBACCO.

he bugs, that infest the bods of young plants, sometimes totally destroying them. To what we have before mentioned, we may now add the experience of Mr. Lare lot the ground which had matured a crop by the first of H is field, a highly respectable planter, of Anne Arandel to decant it into a common watering pot, and sprinkle rally planted with cabbage, at a season too late to plants, of which sulphur is a chief ingredient. The following observations of our St. Mary's correspondent, comes in corroboration of what the French Farmer suggests of the state of the s gests; should either of these ingredients alone, in any If this turnip is as productive as Mr. Cobbett says ease, I rove ineffectual, it may be that a compound of two

#### TO THE EDITOR

dated-" Cak Land, May 10th, 1819.

idly extending in our country, we shall at all times, be is new and every way worthy of attention. Much as has highly gratified to receive light on the various proheen said about Russ Bign, already, we are fully persua-I shall save a considerable quantity of seed, and cesses of cultivation and curing it. We have been ded the reader will thank us, as we do the writer, for intend to make a fair trial of the value of this root dreadfully annoyed in our Tobacco beds, by a small treating him with this new dish of it. black insect, called the fly, in appearance resembling the flea; they commenced their havor with me, and 1 in the execution of our humble undertaking in behalf of immediately made an attack on them with the plas- the Parming interest, was the fear, that we should find it limited, as yet; different seasons will produce different effects, but I believe Mr. Cobbett's opinion and character of this root, will be found to be correct, and I tender to him my respects for introducing the Ruta Baga, [might I not say for forcing, for his ardor, in some measure, compelled every hind and dry, was much in its favour, for his ardor, in some measure, compelled every hind and dry, was much in its favour, and the Farming interest, was the fear, that we should find it impossible to overcome the mistace of Agricultural gentlemen, about communicating their observations for publication. We are highly gratified to perceive, that this disposition to conecal their which is favour, for his ardor, in some measure, compelled every hot and dry, was much in its favour, and the fear that we should find it impossible to overcome the mistace of Agricultural gentlemen, about communicating their observations for publication. We are highly gratified to perceive, that this disposition to conecal their which is favour, for his ardor, in some measure, compelled every hot and dry, was much in its favour, and the fear that we should find it impossible to overcome the mistace of Agricultural gentlemen, about communicating their observations for publication. We are highly gratified to perceive, that this disposition to conecal their which is favour, for his ardor, in some measure, compelled every hot and dry, was much in its favour. This was the early part of the present month [May ] very interesting communications, and we have every I had it sowed over the bed very early in the morn-ty and value. We announce it as a fact every way aning, and on the second and third day, I found a won-ty-picious to our highly favored enterprize. Amongst othdefall change produced; the fly from having been er subjects, we are authorised to promise our Maryland Geo. by the rising of people of colour. One Coco or bed; and I was truly gratified to find numbers dead which has hillert; we may say, been totally neglected, and not at all understood, in most parts of this state. to have been the principal who has been tried and sickened, that I could without any difficulty, by the To those who live where timber has become very scarce scutenced to be hang. Several others, it was expect | end of my finger on them. This remedy is applied and of high price, and who yet think the raising of live to the planter whatever. If this simple remedy be judice and halo to the surgestion we say, wait-lay aside pre-The public mind has been for some days past agitated known to many parts of the state, it surely is not u- in the thing, and then judge.

A St. Mary's Correspondent.

TO PRESERVE PLANTS FROM INSECTS. Translated from the French.

Receipt of a liquid, which has the property of destroying the insects, catterpillers, grubs, bugs, ants, &c. &c. &c. which attach themselves to plants, &c.

Take of black soap, best quality, 31 lbs. brimstone, 3 do. wood mushrooms, 2 do. rain or river water, 60 pints; divide the water into two equal parts, take one half and put it into a barrel, that is not to be put to any other use, melt the soap in it, and add thereto the mushrooms, after having bruised scriber has been broken, on notice being given, he them a little; boil in a large pot the remaining part will be supplied through the return mail, with the of the water, put the brimstone in a clean piece of deficient numbers; but it is hoped, that this demand lines, and make a bundle of it, tied up with a twine, you must attach thereto a stone, or weight, to make it lay to the bottom of the pat; let it boil for twenty with a stick that it may take the color and strangth of the brimstone; if you double the quantity of these ingredients, the effects of the water will be more beagan stirred, until the whole becomes extremely fetil-the more old and fetid it is, the better. You nust take care to have the barrel well stopped every

> When you want to use this water, it is sufficient to pour some over the plants, but the best manner is the plants therewith, which will have the desired ef-

N. B. The sediment, remaining after the water is all drawn off, should be placed where none of the domestic animals can have access to it.

### RUTA BAGA.

While we offer our sincere thanks to the much reenected writer of the remarks on the Ruta Baga, which appear in this paper, we must express our regret that we are not allowed to give it the weight and sanction which his name, so well known and so deservedly respected among agriculturists, would have communicated. dated—" Oak Land, May 10th, 1819.

The subject of Tobacco, appears to interest fittherto, this root has been chiefly considered as a source of provision for live stock. The view taken of it by our correspondent, as a means of raising the most early and

One of the greatest difficulties which we apprehended ery numerous, were already nearly cleared from the and southern readers, who most require them, some at a small expense, and involves no inconvenience fences infinitely trouble-some and impracticable for the judice and listen to the suggestions of those experienced

> A man by the name of Woodward, has been taken up and is now in prison in New-Or eans, for attempting to pass 5 one hundred dollar counterfeit notes of the Bank of Louisiana.

#### TRENCH CEMUNT

This Cement is designed as a paint for the roofs of recting new houses, or are about to paint the roof of elegloses, and is said to be more durable than the best kind of paint. Receipt for making it.

Take as much lime as is usual in making a pail full of A fine example of activity and public spirit, has been set ed by this cement, from inflaming the shingles. So cheap ment, ought not to pass untried. Those who wish to be ment by using a small portion of the coment, on some shingles put together for the purpose, and then expessed to be fire.

A a meeting of the Board of trustees of the Massa chusetts Society for promoting Agriculture, held at the house of the Hon. Mr. Welles, April, 10, 1819-

A le 'er was read from George G. Earrell, Esq. American onsul at Malaga, to the Corresponding Secretary of the Society.

Mr. Barrell sent a pair of Spanish Pigs, valuable for the case and economy with which they may be fatted three bags of Spanish Wheat, and a nest of Milk Pans, very large, and much esteemed in the Spanish dairies.

It was roted, that the thanks of the Society be given to Mr. Barrell, for the fliendly oder of his future services, and for his attention to the agricultural laterest of his country.

The Wheat will be given to zentlemen desirous to try M, and who will be willing to report to the Society their mode of culture and s.ceess, if they will take the trouble to call for it, at Mr. Gadd's office, No. 22, State street.

Catterpillars are very numerous this season. It is hoped that the Farmers, and particularly those who are members of the Worcester coun vagricultural Society. will not incur the disgrace and loss of having their trees eaten up by such vermin, when it can be so easily prevented. A correspondent assures us that salted hog's ful, applied to the next in the evening, by means of a rag tied on the end of a pole—is an effectual cure —. wass. pap.

### CHARLES III. AND THE SAILOR.

In the reign of King Charles the second, a sailor having received his pay, resorted to a house of ill fame in Wayping, where he staid all night and had his whole of each; and accordingly, overtaking a gentleman on Sterney Fields, to whom he related his mishap, he insisted on having his loss made good. The gentleman for sometime expostulated with him on the atrocity of and the genfleman dreading we se consequences, delivered his purse, but soon after lad the sador taken up examined, and committed to Newgate; from whence to the king : " KING CHARLES,

"One of thy subjects, the other night robbed me of furty pounds, for which I relied another of the same sum, who has inhumanly sent me to Newzute, and swears I shall be hanged. ther fere for thy arm sake, save my life, or by--thou will lose the best seem as on the navy. Thins, "JACK SKITFTON."

His majesty, on the receipt of the letter, immediately lers

wrote as follows: "JACK SKIPFTON,

the Agricultural Society of Margland,

houses. It answers all the purposes of common paint, it. for tWe hiesday, that will be on the thip fame next. and also protects the roof from fire. Those who are e- It is hoped, that the mend ers will be punctual in their the revolution descending to the tanh. Formed by the buildings, would do well to try it. The expense of paint give scaledly and system to the operations of an institut the collusion of liberty, he early entered the field on

Tor the attainment of this result, much depends on the

zeal and diligence of the Ofens.

whitewash, and let it be mixed in the pail nearly full of to the Mather Society, by its off-pring at Easton. The alternately commanded with Gen. Samuel Smith, of Mid the computed A little lamp black, yellow servedly eminent as a practical Ague durist, and the the most flattering testimonials of his military career. cold to change the colour of the concent to please the fan mother Institution justify the hope, that at the angual various judicial offices, the duties of which he discharus with the receipt for making it, observed, that he had it was established, will be exposed, and the means of at used it with great success, and recommends it particus taining them, clearly indicated. The numerous letters we larly as a protection against fire. Small sparks of hre are daily receiving from all parts of the United States, fellow citizens. Industry, temperance and integrity, that frequently lodge on the roofs of houses, are prevent- spressing satisfaction at the establishment of an Agri- characterized his private deportment. ultural paper, even such an one as ours, satisfies us that a and valuable a precaution against this destructive ele-most auspicious spirit pervades the whole country; we should deeply regret that our native state should fall bebetter satisfied of its utility, can easily try the experi-hind in a competition so honourable. Let politicians quartel for place or principle: but let all unite in agrismall temporary building; or it may be tried on dry calbural exertions, to embellish the face of our baggard and exhausted country, and thereby increasing the means of solid comfort, abundance and happiness.

> Present prices of A. gland presence, in the Bal ti nore market.

TOBACCO .- We begin with this as the heaviest artile-most hable to material variation, and requiring to respoken of more specifically, and more in detail than others. We rep at what we think we have a right to do thoses raise thy planting the root in one season; Spring -that we gather the priors of all things by personal onquiry, and with great care and rigid investigation.

Vaginia Telesco-common, 18 to 150 good quality, 40

Early fine, \$10 to 1050 savet seemed, \$12 to 14 Early Savet and Pet mir, \$3 and 10.

Putword, best quality. \$41 and the Ten Ingelicads. very fine, made by Zephemah Waters, near Benedict sold on Wednesda, for 513 and 15.

Wagen Tabacco - 512 to 17.

Cin-52 cents. Wheat, red, S1 40.

white, 51 50.

Rue-90 cents.

Ods 50 to 56 cents.

Beef, best butcher's,12 1.2 cents; Mutton, 10 do fresh Pork, 10 to 12 1-2 do; Veal, be-t, 12 1-2 do; per quarter from the wasons, \$1 to 1 25; butter, 57 12 ents; Eggs, 15 do.

Hat, per ten, S18 to 19; Stram, d. S12 a 13.

### To Farmers and Cardeners.

Back leave to inform you, that there is for sale, by was ping, where he stand an inght and have been substance taken from him. In the morning he vowed from Paca-street, the north side of the new market, under the store of L. Holmes, jun. a large assortment of

FIELD AN GIRHEN SEEDS.

which were imported from Englanthy William Cobbett. in March 1819. This assortment meludes the true Rotal mised. such behaviour, but to no purpose ; the tar was resolute, Baga, or Swedish Turnip, and several other of the best sorts of field and garden Turnip, and a large assortment nearly as follows: of field and garden beeds. These Seeds have als been raised with the greatest cure, and are warranted true and Jack sent a shipmate, with the following strange epistle good, by the importer. These Seeds will be for sale at the place above mentioned ev re day, (Wednesdays and Saturday excepted,) which days, James Hammicrien, will have them for sale in the Marsh Market, Balti- Price three dollars, payable in advance. more.

> best quality, as they never have been in any Seed Store in England; they are as they were gathered from the fields and gardens, and open to the eccourt the parchasers

The Listor of the American Parmer, has no hesita-"For this time I'll save thee from the cultore; but if hereafter, thou only guilty of the like, by——I'll have thee hanged,
though the best seamen in my navy. Thim.
"CHARLES REX."

The Enter of the water and rather, has no assume the appear to be uncomtised in the sale of each, this spile; and decembe, perhaps, no species of swinding there reprehensible.

DILD-On the 10th ultimo, in Sarater or causty, N. Y. will meet at Gadsby's hotel, in the city of Ballianore, on Col. Advan Con. book, in the Soch year of his age. It has the sock well-assign that will be on the 4th of Jane next, death well to I another of the few survivar parriets of attendance, and that arrangements will be made to ture, in body and mind, fir a solvier, and glowing with ing a roof in this way, would be much less than in the iton so well calculated to promote the best interests of the side of the colonies in the revolutionary conflict.—

Enjoying the confidence of the illustricity Hardhard in these difficult times. was soon pramoted, under his auspines, to a cal mery in the continental line of the army. At the signal victory of the red Bank, he was "the officer of the day," and water : in this put two and a half pounds of brown sugar. Fresident there, has performed his part with that carnest. In the gallant affair of Mud Fort. On his retiring from and three lbs of fine salt; mix them well together, and ness and intelligence, which have rendered him so de the army, he received from the commander in chief othre, or other colouring commodity, may be introdul wed known industry and talents of the president of the During a great part of his life, he was the incumbent of cy of those who use it. The gendeman who furnished meeting of the Society, the variable purpose, for which Zed with acknowledged ability and independence, while his parliamentary labors of about 20 years, further evince the respectful consideration in which he was held by his

### Gardeners Take Notice

AND RENEW YOUR SEEDS!

British Seeds, Garden Tools, Books on Agriculture, Botany, & Gardening, FOR SALE BY

J. P. CASEY.

NO. 2. HANOVERSTREET, ADJOINING GADSBY'S HOTEL.

N addition to his stocket Seeds on hand he has receive per the Prenklin, a large assortment of GARDAN AND PLOWER SEEDS, including Rata Biga, or Swedish Turn p. Yellow Scarrinck, Red Ring, and Globe Turnip Scholer Onion Seed that will exceed the size of vetches superior to the Rufa Baya; for feeding cattle; bust Durlin a Clour Mustanl, &c.

There seeds are of a superior quality, and are not sealed up from the eye of the purchaser.

41

### JUST PUBLISHED.

N ORATION, delivered on the 17th of March 1819 at Washington Hall, in the city of New-York, before N ORATION, delivered on the 17th of March 1819 the Shamrick Friendly Association, by Stephen P. L. m. ac, Tsq. For sale at the cine of the Globe, No. 5, Burling Slip, price 37 1-2 cents

Prepared for the press, and will be published in six days, A SERMON, delivered in the Catholic Cathedral of St. Patrick, in the city of New-York, on the Sunday after the first March, 1819, by the Rev. William Taylor, For sale at the office of the Globe, No 5, Burling Sur, price 25 cents.

The above oration is, perhaps, the most interesting lisplay of patriodism and oratory that has ever been de-

livered on a similar occasion.

Of the talents of Mr. Taylor, it is nee less to say more than that they are known, established, and admired. But leave to inform you, that there is for saie, by James Hammerton, in Lexingle-t-street, two doors congregation. The oration and sermon taken together, from Paca-street, the north side of the new market, the give a find of Irish history, such as no person should lose the opportunity of possessing.

The second number of the should is ready for deliv-

ery. Be outlins the agricultural cuts which were pro-

The Glab will be r Allshel monthly, and divided

Alluirs of the United States, 16 pages Inchast, 16 do Other foreign countries. 15 do Miscellaneous,

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Mentioned above, Just removed and for sale by ED 93.45. J COALE.

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April 2-8t.

#### AT BALTIMORE:

Carefully Revised and Corrected	l ever	ry Thu	rsday
ARTICLES.	ren.	RETAIL	PRICES
BEEF, Northern mess	bbl.	17	
No 1 No 2		15 13 50	
Bacon,	ib.	16	
Butter, Ferkin	1	18 33	20
Coffee, first quality,		27	28
Cotton,		27	
Twist, No. 5, No. 6 a 10, -		45 46	50
No. 11 a ±0, =		53	Si
No. 20 a 30,		80 33	1 20
.hocolate, No. 1, No. 2,		28	
No. 3,	haz	25 20	22
Jandles, mould, dipt,	box	18	
spermaceti,	[		scarce
Cheese, American, Feathers,	lo.	10 60	15 65
Fish, cod, dry	qtl.	3 50	
herrings, Susquehannah,	bbl.		retail
mackarel, No. 1 a 3 - shad, trimmed, -		9 7 75	12
-lour, superfine,	, , , ,	6 50	7
fine, middlings,	ьы.	5 50 4 50	6 5
rye,		4 a	4 25
claxseed, rough,	i	none. do	
Flax,	bush lb.	do	
Hides, dryed,		12	15
Hogs lard,		12 25	13 30
Molasses, Havana,	gal.	62 1-2	75
New Orleans, -		75. 1	
sugar house, Oil, spermaceti,	gal.	1 50	
PORK, mess or 1st quality, -	<b></b>	:8 a	20
prime 2d do cargo 3d do		16 a	17
Plaster,	ton	5	
ground	bbl. lb.	1 75 6	
SPIRITS, Brandy, French, 4th proof		2	3
peach, 4th proof		1 25 75	1 50
apple, 1st proof Gin, Holland, 1st proof		1 50	
do. 4th proof		50	60
do. N. England Rum, Jamaica, -		1 50	2
American, 1st proof		75	
Whiskey, 1st proof soap, American, white,	lb.	50 18	62 1-2 20
do. brown, -		9	-0
ngars, Havana, white, brown,		19 14 50	15
loaf,		25	28
lump,	lh.	20	a 25
Liverpool, ground,	bu.	70 75	1
shot, all sizes,	lb.	12	
TOBACCO, Virginia fat, do middlings,	cwt	7 6 50	
Rappahannock,		5	<b>5 5</b> 0
Kentucky, -	lb.	6 50 25	7 50 37
small twist, manufactured, pound do	ιυ.	50	75
'EAS, Bohea,		63	_ 100
Souchong, Hyson Skin	lb.	75 75	a 100 a 150
Young Hyson,		1 25	a 150
Imperial,		1 75 80	
VOOL, Merino, clean, unwashed, -		40	
crossed, clean,		65	
unwashed, - common country, clean,	Į	35 37	
unwashed		25	
	2	. ao	;

skinner's.

### Agricultural Repository,

For Seed, Gooks, Implements of Husbandry, &c.

P. CASEY, No. 2, Hanover Street, adjoining Mr. Ganser's Hotel, has received from d flerent parts of Europe, (where they could be best procured)

THE FOLLOWING

### Seeds and Flower Roots, viz.

20 varieties of Cabbage Seeds, including those which Cobbett mentions in his last 6 Month's Resi-

6 varieties of Brocoli and Cauliflower Seeds, adapted to the chmate or this country.

6 do. of Beets, two sorts of which are a very fine Spinach, and a substitute for Asparagus.

8 do. of Lettuce, two sorts of which sell in Europe for 12 shillings sterling per ounce.

6 do. of Radishes (very beautiful) do.

6 do. of Turnips. -Other varieties too numerous to mention.

Also a numerous variety of

FLOWER SEEDS, made up in small packages, amongst the latter is cornation. Pheasant eyed pink; and Auri cula at 25 dollars per oz. The above are all genuine and adapted for all parts of the union.

To close the suies of his Flower Roots, he will sell the following Roots at reduced prices, viz.

Double Anemonies, of sort's

 $\mathbf{D}_{\mathbf{0}}$ Ranunculuses, scarlet and Persian, do

Do Tulips mixt Do Carnation Tulips

Yellow Rose Do Best Dutch single Tulips

Parroquet Do Polyauthus, Narcissus, and Tuberoses.

What we admire, we praise; and when we praise, " Advance it into notice, that its worth

" Acknowledged, others may admire it too."

### JUST PUBLISHED, A Farmer & Gardener's Hive,

Showing the expense and profit attending the cultivation of 300 acres of land, and so in proportion for any other quantity; with a table directing the proper quantity of different sorts of seed or grain necessary to be sown on an acre of land, either for drill or broad cast husbandry-To which is added, a Farmer and Gardener's Callendar, showing what is necessary to be done on the farm and in the garden for every month in the year; with many valuable recipes necesary for the farmer in cultivating his land and protecting his fruit trees from all sorts of diseases, insects, te. Also to preserve sheep from the rot, to make poultry lay eggs, make good cheese; to ensure an abundant crop of grapes, apples, pears peaches, gooscherry and currants; and to protect vegetables of every desemption from catterpillars and other insects-to he hall at his seed store, with his signature annexed-Copy right secured according to law.

AGRICULTURAL SEEDS, such as Clover, Timothy, Flax, Orchard, etc. bought or exchanged for other Seeds. April 2 St

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EBENEZER FRENCH, PRINTER.

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# AMERICAN FARMER.

# RUBAL ECONOMY, INTERNAL IMPROVMENTS, NEWS, PRIBES CUPRENT.

" O fortunatos nimium sua si bona norint "Agricolas." . . . . VIRG.

Vol I.

# BALTIMORE, FRIDAY, MAY 28, 1819.

NUM. 9.

#### AGRICULTURE.

From the Memoirs of the Philadelphia Agricultural Society.

# Notices for a Young Farmer, &c.

WITH NOTES BY THE EDITOR OF THE FARMER.

[Continued from No. 8, page 30.] Lime; when, and how profitably applied. Indian corn; modes of planting. Rotting or decaying the sod. Harrow preferred to the plough, for cleaning and dressing corn. Some remarks on southern farming.

IV. You gain a season in the wholesome efficacy of lime, by spreading and harrowing it well in, on your fall-ploughed fallows. Its causticity is thus mitigated or destroyed by winter expusure; and you may the more safely use dung, the ensuing season, for your crops, without danger of injurious effects from hot lime

If you plant Indian corn, on either fall or spring ploughed sod-fallow, (or any other) deeply tilled, (and it is the most desirable and cleaning crop,) plaster the hills—as they are technically called—or sow the gypsum over the whole field; and some do both, after the plants are sufficiently forward. The seed should be wetted and rolled in plaster, or steeped in a decoction of Hellebore or Copperas; or, what produces surprising effect, a strong solution of Saltpetre; but do not soak or steep it too much In dry weather, the germination is accelerated, by the steeping injuriously; so that the plume and radicles perish; and in long wet seasons, they rot. The sod having been broken up 5 to 7 inches deep; or if more, the better; requires shallow planting. If it be cut with a coulter harrow, the better crop will thrive. Being unturned, the sod becomes of itself a manure. Although it may not entirely rot, its incapacity to vegetate is insured; and the soil is left filled with decryed vegetable matter, auxiliary to the corn product and a babulum for appropriate manures But frequent harrowing must not be neglected; whether you shall plant in squares or drills, and at what distances, depends much on the state of your field, the nature of your soil, and not a little on opinion; which varies much on this subject, and is frequently operated upon by success, in the mode which happens to be fortunate. Some have spoken favourably of planting Corn as early as it can well be got in the ground; and they do not fear the annoyance of late frosts. It might by this means be vigorous enough to resist the Grub, or grow after being cut off by them. Some have succeeded in planting late, so that the Cut-worm is passing away before it sprouts. The first mode is more secure from early frosts in

Unless its situation and circumstances forbid, lay your Cornfield level, rather than in ridges, that moisture, in light soils especially, may be retained, instead of passing away, and, if necessary, draw water-furtows, to carry off accidental flooding, by rains, or other causes. Cleanly farming is essentially necessary, with the hoe and common harrow, to prevent grass and weeds from growing; and to assist in rotting the manured, drilled between them.

sod. Use the plough little, if at all; and the harrows much. Plowing up furrows to the Cornplants, is an impediment to the harrowing culture. carries off moisture from the plants, exposes the accumulations of earth soon to dry through, and is worse than useless If you must ridge low and wet soils, still the boe and common harrow should be diligently used. Pulverise your ground, and the plant will be nourished and supported by the length and vigour of multiplied roots, and never require hills, or elevated furrows.

Transplanting, from a seed bed, sown early, broad cast, in or convenient to your corn field, or with supernumerary plants, from other hills, is far preferable to using seed corp for supplying defective hills, cut off by the grub, or otherwise vacant. Plants overtake and keep pace with those uninjured; but renewals with seed corn seldom arrive at maturity.

Salt is used for destroying grubs, worms, &c.; and has been successful in killing, or banishing the Old piekle, or refused meat, or fish, dispersed in small quantities, in mole tracks, has banished moles from gardens, or fields.

It being the intent of these Notices to recommend not to dictate, it is deemed proper to mention, that Col Taylor, of Virginia, (and his practice is followed by many southern farmers,) pursues a mode of cropping with Indian corn, directly the reverse of the one herein recommended; and an account of it may be seen in his Arator He breaks up, however deep; lays his field in high ridges, -possibly, his soil and surface may so require, -in a north and south direction; burying his coarse (corn-stalk) manure, to rot in his soil; and in succeeding Corn crops, after a lapse of some years, the rows are planted over the former deep furrows; the crowns of the new ridges, occupying the places of those furrows. Many pursue his practice, and speak favorably of it To us, who prefer laying our fields level, for the scythe and grazing, this mode would not be eligible. It may in some soils, as it regards the culture of the Coro crop merely, have its advantages, It resembles in some paticulars, Mr. Gregg's practice on a wet heavy soil, mentioned in our 2d volume. Col. Taylor's plan may be seen in his Essays on the subject. In this mode, deep ploughing is essential; and it is as much so in the level culture; for, with shallow ploughing, moisture would soon evaporate, though not so much as if ridged. and a greater surface exposed to drain and dry. Many who prefer ploughing in grain, lay their fields in broad lands, and harrow after ploughing in.

Wheresoever the harrow has been fairly tried, its advantages over the plough, in the Corn crop, have been decisively shewn. Corn in drills, on a sod deeply ploughed in, the rows 4 feet apart, and the plants 18 inches asunder, and thereafter entirely cultivated with harrows, has produced crops, beyond the belief of those wedded to the old mode of culture. Some have found great advantages in the culture of Corn in wide rows; and potatoes, well it Corn, without its specific designation, for its pre-

It is evident, that this and other modes of practice herein mentioned, are calculated for farms of the extent deemed competent in our part of the Union; where permanent cleanliness, and valuable covers of grass, for hay and pasture, are contemplated. In southern sections, where the mere grain crop is the object, and vast extent of surface occupied; so that numbers of acres are multiplied, to produce an aggregate, which might be had from a few; such details of operation for dressing and cleaning the soil, although highly assistant to the immediate crop. would be considered as applicable and unnecessary. But until in those districts, some such practices are used in less extensive husbandry, are more commonly introduced, landholders should not complain of broom-straw, and other noxious pests, overrunning and sterilizing their worn and finally abandoned fields : urged on their march to poverty, by double eropping, and rough farming. Great advantages might, however, be now taken of former mismanngement, by pursuing some such means to recover waste and abondoned lands, by using the spontaneous growths of scrubby timber, first for cover, after felling, and then burning it, as ol. Taylor has panetised. See t vol. Philadelphia Memoirs, pages 32, 8, 9. He has not only set an encouraging example for farther experiments; but has afforded the strongest proofs of the benefits resulting from cover and fire, on soils. From experience in the like experiment, it could be shewn, that his cover remained unncressarily long unburnt

If the numbers of slaves are burthens on the southern landholders, in the farming districts; costing their attention to a better style of agriculture on a smaller scale, would relieve t em. If emancipation or colonization be prudent and practicable, those emancipated or colonized, might be spared, when fewer labourers were required in improved husbandry. If less land were occupied in exhausting culture, there would be a surplus for a white population to cultivate to greater advantage. The improved state of the husbandry in some of the counties of Virginia, particularly Loudon, is an example of peerless value. The plaster and clover culture has produced there, almost magical effects. Deep

ploughing is much practised.

If you cannot lime, for the Corn crop, in the autumn, let it be done early in the spring. The harrows mix the lime with the soil, and should be frequently at work. Be not afraid of cutting the Corn roots; they send out fibres from the severed parts which more than supply the deficiency occasioned by excision. Sucker your Corn, and do not sow winter grain among it—to the injury of both crops as well as your land Of all your crops, Indian C rn will the least bear neglect, and it amply rewards all your attention. It is not only the most valuable, take it with all its advantages, but it is, of all crops, generally, the most certain. If it fails, some most uncommon seasons or circumstances occur. We call emmence. It is the best crop to subdue a stubborn,

or clean a foul soil. It forces you to farm we. which counterbalances its exhaustion, in a very im-

postant degree.

Indian corn is truly a great exhauster, however valuable it may otherwise be. It should therefore be only one of a course of crops, and not repeated, but at long intervals. When its turn arrives, it should be used as a cleaning crop; for which it is highly estimable, not only for its own, but for the benefit of its successors; which should be small grains and grasses. Whatever may be done in more fertile or new countries, old lands will not admit of frequent and uninterrupted successions of this crop.

Stable and Yard Manue to be ploughed in. Dung; remarks on it, and opinions as to the state in which it

is most beneficially applied.

V. Plough in your Barn yard or Stable manure. In what state dung should be applied, is a disputed question. Some plough it in at an early stage of putrescence, and some when it is more advanced.—
The middle course is, perhaps, the best. To scar city or other tap-roots, fresh dung is decidedly hostile. But the adverse opinions on this subject, as to other crops, are too diffuse, to be here inserted -You will find them in books, but the best lessons are to be gained by your own experience Your well rotted compost, is indubitably best, for top dressings, on either grain or grass Yet fresh dung, as a top, dressing, has its advocates. It is even believed by many, that using dung by itself, is wanton waste; and that it should be considered only as an ingredient, to give value and activity to other materials in composts Much more apparently improbable revolutions in rural economy have come to pass. Intelligent farmers hold opposite opinions. See, in England, Mr. Gregg's practice, 2d vol. Philadelphia Memoirs, 71, 72; and col. Taylor's Arator Read Sir H Davy's Discussion upon this subject, and judge for yourself See also, in Sir J Sinclair's Tour through Flanders, 1815, an account of the practice of the Swiss Farmers; who soak their dung in water, and apply it in a liquid state, to far greater advantage than crude dung

The nature and qualities of soils, and the kinds and description of manures, have influence, no doubt, on opinions and practice. Climate and seasons have also their operations on manures. The most general opinions and practice, favour the use of mode-

rately rolled dung (a)
Deep ploughing in breaking up. Sorrel and Sorreline acid. Foul or wet fallows. Chaff bearing crops, not to succeed one another. Oats cut for hay, or sowo for pasture Fences.

VI. Break up deep, and be not afraid of turning up barren soil, when the nature of your ground admits of this operation. Shallow ploughing up the regetable moutd, deceptiously selves a turn, when it is not exhausted; and its exhaustion is the certain consequence of this ill-judged tillage. But the air contains the principal store of materials for the food of plants; (b) and will impregnate the substra tum, if exposed a due length of time; capecially in winter, when it receives much, and parts with little; the heat of the sun being then feeble, and incapable of dispelling what the soil receives from the air -Those who object to deep, much more to trench ploughing, want experience sufficiently to test their benefits. They have mismanaged experiments, or have been in too great haste to crop their grounds. The substratum must be exposed, for a time neces- the ditch and mound faced with stone, which many will be misconstrucd; his premises radically false; his

Indian Corn, with lime, is by far the best crop, af-bion both to your hedge plants and to your field,) you ter trenching, particularly: because it requires the prefer plain hedging; cultivate strips along your Soil to be constantly stirred and exposed. True, hedge, from year to year, well manured, and plant there are some soils, which neither deep nor trench potatoes, and your thorns will anne luxuriantly ploughing will benefit; and eve y Farmer should accommodate his practice to the nature and qualities Over cropping and shallow ploughing, with exhausting crops in succession, frequently cause overwhelming growths of Sorrel, to infest all managed fields. Lime is the only remedy; and you will see in 1.ord Dundonald's " Connexion," &c. the good effects of lime; which destroys the sorrel, and produces the sorreline acid, highly friendly to wholesome and profitable vegetation. Green sucrel grows

Never sow a foul or weedy fallow, to save a follow another. Such farming many succeed for a

it will produce only a crop of regret.

moirs, 186. Oats and Indian Corn are sometimes sown together, in broad cast, and cut for soiling, or to be ploughed in, as green mairire. It is difficult to dry them, for winter provender. Thistles, or other succulent plants ploughed in, fertilize woulderfully, when left long enough to ferment, and become pu-

does not exhaust like Outs, could be suggested, a great reformation would ensue. Vetches, or some such plant might be substituted, if the culture were better understood The Heligoland Bean, very productive, is now esteemed, in England, as a clean ing crop, to precede Wheat. A spring cover of Peas, of a species ripening in time, is very benefit road; it ought to have produced 50 or 60 bushets to the cially used to precede wheat, in the autumn. If the acre; it was the manore taken immediately from the stapease fall, and the crop is likely to fail, they may be ble of stage horses, the season was dry: the Corn was ploughed in, as an excellent green manure.

Keep good Fences, and make and repair them, is not sui able manure for Corn. when other business is interrupted. They not only secure your own crops, but ensure the good will of your neighbours, by preventing teazing contests -Outs and Indian corn, for soiling. Vetches. Hetigoland Let no weeds, or nurseries for pests, remain near Bean. Thistles ploughed in Fences. Timber. Line them; and avoid throwing stones, or other obstructions to the scythe on the edges of your fields, or mowing grounds. They prevent cleaning their borders, and afford opportunities of growing, to noxious weeds and other pests; forming, finally, scrubby hedge rows, to disgrace them.

Be avaricious of your TIMBER, and fence your wood lands, to protect the young growths. Waste and negligence in this all essential article, soon pro-

duce pretrievable want.

LIVE FENCES are becoming more and more indispensable; and those composed of the Newcastle Thorn (eralægus crus galli,) will be found the best, for hardihood, durability, constant verdure, and n m bers and strength of the thorns. Live fences, as whilst other improvements are progressing

my to receive the influences of the atmosphere. - | deem the best, (because it affords immediate protect In a few continuations of the polatoe culture, you will gradually reach and invigorate the whole extent of your hedge. Let no person begin a hedge, who will not nurse and foster it, in every stage of its [ To be continued.] NOTES.

(a) In what particular state, that is, at what point in its process of fermentation and decomposition, manare is applied with the greatest advantage, has occasionend much discussion without having established any general conviction, or settled principles on the subject. on tertile soils; but the red sorrel is a certain mark great difficulty in the way of coming to a satisfactory conclusion, lies in this:—That the advocates of "hot muck," and of "well rotted manure," have not previously Never sow a foul or weedy fallow, to save a lag eed upon their data; and since men are apt to arrive ploughing; or a well one, to save time: nor sow or lat different conclusions, even when starting from the stubble in, one chast-bearing crop, immediately to same premises, arising from the imperfections of human follow another.

Such farming many succeed for a perceptions; how much more apt are they to differ in time, under particular circumstances; but in the end their cooclusions, when they have not agreed open their after his own nose, meet face no face at the antipodes; If you are deficient in mowing g ounds, Oats may not so in reasoning. If Agriculturists would settle the be sown on your vallow, and cut for hay, belore ri- question, in what state manure is most effectually appening the seed; and in such case they do not exty of the soil, the nature of the crop, the season, &c. &c. haust; nor does any plant, in this stage of its growth for example the manure of animals that have two stom-And see Mr. W. Young's paper on the great adachs, and chew the cud, as is the case with most animais, that have no front teeth in their upper jaw, such as the first paper in the property of the first paper in the property of the first paper in the property of the first paper in the property of the first paper in the property of the first paper in the property of the first paper in the property of the first paper in the property of the propert as the cow, she p, &c. &c. is ejected in a much more advanced state of putrefaction than that of the horse, &c. &c .- Again, sandy land would probably require manure to be applied in a very different state from that which would be suitable for very stiff land ;-and again, a small crop which is of delicate fibre, and of rapid growth, would, perhaps, be destroyed by an unformented, hot muck, which would prove vrey suitable for Indian Corn, Tobacco, &c.—And lastly, this hot quock, applied advan-If any covering crop, for summer fallows, which tageously to Indian Corn, in a wet season, would probably burn and destroy it in a dry one; so that these disputes about the relative superiority of hot muck, and well rotted manure, are not likely to conduce to the esblishment of any settled opinions, until these previous data are agreed upon. The same remarks may be made as to many other contested points in agriculture.

The most heavily manured lot of ground we ever saw was, some years since, at M'Coys, on the Washington burnt up, "and the field did not produce half a crop tr does not follow, as a general principle, that hot muck

(b) What constitutes the chief food of plants, is a point much disputed by gentlemen of science, who have taken much pains to investigate the subject. For a well sopported opinion, contrary to the one here expressed and to the opinion of Col laylor, of Virginia, (for it seems that he and Judge Peters agree on this better than on some other points,) we refer the reader to a learned and able communication from the pen of Doctor Joseph E.

euse, dated ambridge, Dorset County, Dec 1st, 1818, addressed to H. Maynadicr, Esq. President of the Agricultural Society, at Annapolis, originally published in the Maryland Gazette, and copied in the Maryland Cen-sor, of the 27th Jan. last. That very interesting essay,

concludes in these words:

" From the above view of the subject, I conceive myself justified in the conclusion that Arator's hypothesis is crroneous; that the atmosphere cannot be considered the great matrix of manures in his sense and meaning of the term; that it does not, in its material constitution, contain most of the principles of vegetation; and that it is not capable, from its texture, of holding extraneous matter sufficient for their "whole or chief sustenance;" that the earth contains and administers the adapted nutriment; and upon this important truth, the scientific ag well as or hards, and all fruit-trees, demand the recultor must found his hypothesis ; and by it, the practiearliest attention; and will be growing into profit, cal farmer must direct his experiment; otherwise, the If to phenomena of vegetation daily presented to his view, ded crions will lead him into endless error, and his fan lif the branches are taken off when they are large, cied lights the more fully observe his vision.

I design at a future period, to demonstrate that Ara tor's false theory has led him into practical errors. which with the sanction of their respectable authority, may operate to retard both the science and the art of agriculture."

From the Vermont Republican.

#### PRUNING FRUIT TREES.

The following remarks, we believe, are from a source which entitles them to the attention of far-

MESSRS. IDE & ALDRICH,

I observed in your present week's paper, a call on farmers, by saying that prudent ones will not let this season of the year pass, without pruning their trimming of fruit trees, is obvious to every person melons. who has paid much attention to the culture of fruit; melous and cucumbers for pickling. but from observations I have made for 20 or 30 years past, I am thoroughly convinced that the former injurious to orchards, and particularly to nurseries, which have been loog neglected, and require much clear of weeds. trimming I have observed small trees, which have, in consequence of a close trimming in March, died so deep, and letting such a quantity of the sap and from weeds. moisture escape before the sap begins to move up and supply the foss. In this case, the bark adheres power of the sap again to ascend; and of course, the sapling dies. But this is not apt to be the case with larger trees, when deprived of those supernumerary branches, which in ordinary cases will require to be taken off; but they will nevertheless suffer great dain age by such amputations at this season of the year If a limb of any considerable size is cut several inches from the body, in March, the stump will become cabbage, as a shade, over them. dry, and crack open nearly to the hody; and before the new growth can heat over the wound, the stump will rot, and this defection will soon penetrate to the heart of the tree, and the whole will soon decay .-Whoever will take the trouble to observe old orchards which formerly were trimmed in March, will find, that almost every instance in which a limb of any considerable size had been taken off, instead of the wound being healed, and the tree sound and healthy, a large cavity is found, beginning at the wound, and rapidly increasing towards the heart, which soon deprives the tree of health and vigor. In almost every instance, where I have taken off a limb in June, when the tree is full of sap, if the stump be left smooth, a succession crop, to produce their heads in February. the new growth immediately-commences its healing operations, and instead of decaying and dying, the wound is soon healed over, and the tree remains sound and flourishing I believe the best time in the year for trimming trees, is when they possess the dug out, equally on each side of the trench; put about greatest quantity of sap, which I think is not far three inches of very rotten dung into the trench, then the weed will more easily be destroyed, and by stirring from the middle of June

young orchards so soon by five, and in some cases, about six inches as under: true them before planting. by ten years, as they wight. They say the tree when completed, give them a plentiful watering, an inches as they will be a plentiful watering, and when he planting sticks agrees the troubles. dle with it? The lact is, many of our orchards are begin to grow, when the boards are to be taken off set in good fertile land, and their growth is rapid,

and in many instances, send out three or four times, they should have then first landing; this as many branches as the root is able to support in gently around their sides, leaving the hearts and tops old age: and if they are suffered to remain, the tree free repeating it, very few days, until they are blanchwill soon dwindle, and become shrubby, and die : or, ed of a sufficient height.

he tree will be much more injured, than it would have been, had they been taken off smaller. E. P. Woodstock, April 22, 1818.

From the Practical American Gardener.

#### For the month of June.

Melons and Cucumbers.

All the melons and cucumbers that have hitherto been under the protection of glasses, or paper frames, may now have been removed and fully exposed to the open air. Refreshment of water will be necessary oceasion ally, and particularly to eucumbers.

Keep them entirely free from weeds, and hoe the ground between the plants frequently; draw the earth gently to the stems of all, and lay the vines off in a regfruit trees, and stating the good effects it will have, ular and neat manner; prune luxuriances, by nipping &c. The good effect, of seasonable and proper off the runners; lay a shingle under each fruit of the

In the last week of this month, sow general crops of

Water Melons, Squashes, and Pumkins.
These plants should be thinned now, if not done bemethod of pruning trees, in Varch and April, is very fore, leaving but three of the best in each hill; draw the earth, with a hoe, up to the stems of the plants, as high as the seed leaves; keep the ground loose, and perfectly

Sweet Potatoes

Sweet potatoes must have earth drawn around the by reason of the drying winds penetrating the wounds hills, to encourage the growth of the roots; lay off the vines as regularly as well may be, and keep them free

Cauli flowers.

The early cauliflowers will now produce their heads; to the wood, in such a manner, that it is not in the care must be had to break down the leaves, to preserve the flowers from sun and raio.

Draw the earth round the plants, in the form of a hasin, to retain the water, which should be frequently given them plentifully, which will greatly enlarge the size of the flowers; this is absolutely necessary in dry sea-

The cauliflower plants, from late sowing, should now be planted out finally; if not done in rainy weather, give them water after planting, and lay a large leaf of

Cabbages and Savous. Take the opportunity of moist or cloudy weather, to plant out a full crop of the late spring sowings of cab-bages, savoys, and of the red pickling cabbage.

You may now sow seeds of any of the early heading kinds, as the early Smyrna, York, Sugar-loaf, or Battersea, for autumn.

Borecale, Brussels' Sprouts, Jerusalem Kale, Turnep-Cabbage, and Broccoli.

The early plants, of either of the above kinds, may now be planted out, as directed in may; the late sown erops should be thinned, and those pulled out, planted in a nursery bed, four inches asunder, giving them a good watering when planted, and afterwards occasionally, until well rooted.

Early in this month, sow some more broccoli seed, for

Celery.

Celery plants may now be planted out in trenches; mark out the trenches by line, den or twelve inches wide and allow three feet between trench and trench: dig each trench a moderate spade deep, and spread the earth pare the sides, and dig these with about two inches of the under mould, incorporating all together; then put in Many farmers do not commence trimming their the plants, in the middle of the trench, in single rows, When completed, give them a plentiful watering, and grows well, and bears well, and why should I med-shade them, by placing sticks across the trenches, and over these put pine boards, until they strike root, and

as many branches as the root is able to support in must be done by pulverizing the car h and laying in

A few peas may still be sown, and if the season prove moist, they may produce.

Asparagus.

The asparagus now running up to seed, should be cleared of weeds; also the seedling plants. Transplanting Leeks.

Manure and dig the ground well, then draw from the seed beds the strongest plants, trim the roots, and cut off the tops of the leaves; plant them in rows a foot asunder, and six inches plant from plant, in the rows; insert their shanks into the earth up to their leaves.

Lettuces.

Sow and transplant lettuces. Let this be done in moist weather, or else water them olentifully.

Smill-Sall iding

Continue to sow crosses and other small sallading, once a week. Water them often in dry weather.

Kidney Beans
Sow successive crops of kidney beans, in the heginning, middle, and latter end of this month. Land up the kidney-beans sown last month.

Carolina and Lima Beans

Hoe and clean the ground between these beans: sea that all are properly supported with sticks. Radishes

A few of the salmon and short top purple radishes may be sown; also some of the white and red turniprooted kinds. Towards the middle or end of the month. sow a good crop of the white and black winter radish. to draw early in autumn.

Carrots, Parsneps, and Onions. The crops of carrots, parsneps, and onions, must now be kept clean of weeds, and if the onions incline more

to tops than roots, lay the tops down. Beets.

The crops of heets should be kept very clean from woods, and the plants thinned to eight or nine inches plant from plant, if not done before.

Endive. Transplant endive that is now of a sufficient size. Sow another crop of curled endive, about the middle, and latter end of the month.

Okra, Tomatus, Egg-Plant.

Earth up the crops of okra; where too thick, thin them. Keep the ground cle r from weeds.

In the early part of this month, plant out tomalus and egg-plants. Capsicums.

In the early part of this month, plant out full crops of the capsicums from the seed beds. Cardoans.

Plant out cardoons in a bed of rich earth, at the distance of four feet, every way, from one another: one good plant is sufficient in a place, as they rise to the height of three or four feet, and require a considerable quantity of earth to blanch them.

Plant Pot-Herbs, Sc.

Plant out from the seed-beds, for edgings of the borders, or in beds, plants of thyme, hysop, sage, sweet margoram, winter savory, &c. &c Let this be done, if possible, in moist and cloudy weather.

Gathering Herbs.

All kinds of herbs, such as mint, balm, clary, lavender, sage, rosemary &c. that are gathered for drying, w for distillation, should be cut off, when just beginning to come into full flower, and laid in the shade to dry gradually.

To destroy weeds. As the sun, at this season of the year, is powerful, give the ground a complete hosing, where it can be done; the earth around t e plants, particularly after a shower of rain, it will refresh them.

Mr. Philips, says a Philadelphia paper, took his fare. well benefit at New York, on Monday. There was \$1650 in the house. This is the 6th benefit Mr. Philips has had in New York, in about 18 months: the receipts averaged at \$9,900. These are substantial evidences of publie approbation. - [Aye, and of hard times ton!]

If the introduction of a gar-cane, into Italy (in rivalry of arrangementaling in France, is successful, the stalians win boastingly say to the French, "your sugar is

## Agricultural Communications.

TO THE EDITOR.

Dated Hagerstown, May 17, 1819.

Str-I have met with two or three numbers of the Farmer at our Reading-Room, and am desirous of appropriating to neyself a work of so much general utility. I wish to be considered a subscriber, as from the commencement of the work, and will be glad to receive all the numbers.

How comes it, that in a county more distinguished than the most of its sisters for skill and attention, in and to husbandry, your subscription list has not been seen ?- I am of opinion, that an active agent m nbtam for your paper, handsome encouragemen here; it is very generally, among all whom I

sec, highly spoken of

At present, though we make excellent crops, every son treads in his father's precise footsteps, and our whole system of agriculture depends on the phases of the moon, and the signs of the zodiac, as marked in the large Dutch Almanac. We plant, we so , we reap and mow; we fell trees, we make shingles, we roof our houses, secure bacon, make fences, spread manure, when the moon is auspicious. If we are ready before her ladyship, we wait the happy moment when her aspect shall say, proceed -D1. Crawford's system of unruly vermiculi in the blood, led him to the same course of practice, as was pursued by those who damned his animalcule and ascribed fever to other causes : so our Lunacy leads to results as happy as those which flow from the theeries of our neighbours.

I am willing to render to Cæsar the things which are Cæsar's; to the moon, the moon's-but I confess. I should like to see her power somewhat circumscribed, and the limits of her reign ascertained I have always ascribed great influence to the genial sun, but I assure you it is all moonshine, here.

A thought has occurred to us which we may some day put in execution—to give extracts from the numerous letters we receive from all parts of the United States— They would indicate the estimation in which agriculture is held; its present state, and the temper and habits of the people in regard to it, in various parts and chimates of our country. The foregoing is so full of wit and satirical observation on the prejudices of the people in the wealthiest and most improved part of the state, that we cannot help throwing it into our paper. We have felt sion of carniverous hirds and beasts of prev, to feeding particularly anxious to enlist in our cause, the services! of gentlemen of experience in washington and Frederick, Counties.-They have he reputation of being the most bear the nearest resemblance in character and propen- thus rise at the expense of Bremen A Communication fertile & best e Itiva ed portions of the state. The means by which his enviable condition and honorable reputation has been acquired—the systems pursued, if described in detail, could not fail to promote, essentially, the improvement of the lower counties; we hope our friends there, will not "hide their lights"-tor example, we should be glad to have an extract from the Register of the preduce of some of the Washington Courty Farmers. Verbal statements have been often made, which the lower conty l'ameis refuse to credit, perhaps because they recent on their own bad and slovenly management. Er The young farmers, in the lower part of the state, who, I we below the great unail road line, running east and west, and see out little of the world—if, we say, they could sun mo ran the courage to cross that line in June or July and make a short tour through Washington. Frederich, and some portions of Pernsylvania, it would pay them ten times over the copense, by the certain improvement of all then hisbandry practices, and of course, bean increase in the value and productiveness of their land and their labour, for the balance of their lives,-but if this would involve too violent a departure from their old jog trot habits, we would advise them, to purchase by sub-or r ion, a small farm in every ten miles square, (ab i the usual extert of their observation) and then procure some Pennsylvania, or Frederick County Far- We make these hasty remarks on the letter of our cor different from magnetism.

Farms .- They would soon find, if they would learn on any terms, that the enhancement in the value of their own lands by its increased fertility, would pay them a good interest on the stock invested in the pattern farm. Should this plan be adopted, the Editor of the American Farmer will advertise gratuitously for what we might call a farming schoolmaster; and he has little doubt that some of the farmers in Chester County, worth their \$100,000, who drive their wagons to market, might be induced to spare one of their sons from the plough, to go down and give lessons on the art of making manure, clover, butter and money, and abundance and good health."

\*A gentleman mentioned the other day, an occurrence to convey an idea of the habits and condition of a certain neighbourhood-he said he met on the road, going to a neighbouring village, an old fashioned, imported coach, drawn by two half starved horses, driven by a naked negro slave, conveying a five hog, to buy a jug of rem!

What a picture was there of aristocraey, poverty flaziness, bad management, love of luxury, ruins of fallen grandeur, bad management, &c. &c. !!!-Ed Tarmer.

#### www.w.w For the American Farmer.

MR. EDITOR-In compliance with your urgent request, I proceed to state the substance of my remarks, in conversation with you, concerning the effects of certain kinds of feed on the constitutions of the hog and the cow And first of the hog: I have observed that the common not liquor, from the boiling of pork or bacon, to be injurious to confined hogs, and of no benefit (if not an injury) to those running at large. In my opinion it produces a disposition to mange. (I think that the large hogs, fed in Boston, by Mr. Patterson, with kuchen swill, must have had but little posk in its composition ) And next of the cow. I was informed, by an old gentleman who practised the veteringry art in Baltimore, for several years before his death, that he believed that most of the complaints of the cows in Baltimore, originated from feeding on slops, composed in part of the boilings of beef and park. I bought some Baltimore cows one fall, and found them much weaker, and more difficult to winter, for their appearance, than any t ever fed; and it is my opinion, that this disposition was produced by feeding on such slops as I have above described. And I am of the opinion, that it is contrary to nature, and injurious to the health and constitution of any animal to feed on its own kind. The best feed I have ever given salt. Pliny relates, that this once happened in Caria, to hogs is milk; and it is, at the same time, the worst for near Neptune's Temple. Various other instances have dogs. Rich pot liquor will fatten dogs and kill hogs. If been stated by historians, ancient and modern. these observations are considered worthy a place in your paper, you may insert them.

A ROUGH FARMER.

St. Domingo Farm, May 21, 1819.

Note.-The facts and reasoning of our esteemed correspondent, would seem to be confirmed by the known averon their own kind. Naturalists tell us, that birds which feed ou carrion, are most fond of dead animals which sities to them-clyes; but they refuse to draw subsistence from the inanimate remains of their own kind. The buzzard will feed on the dead hog; the dog on the carease of the dead horse; but buzzard will not eat buz zard, nor dog, dog. Every thing in life has its enemies, and its victims; but it would appear to be incompatible with the standing ordinances of nature, that any order of animated beings should derive the means of life, and prosper by the consumption of its own kind: in a word, that it should be interested in the destruction of its own | species, implies a contradiction in the order of things.

injurious to health, or more offensive to the sense, than the effluvia which escapes from the body of our own the Elbc. kind; hence arises, in a great degree, the unhealthiness! of jails, birth-decks, &c. &c. Nothing, it is said, is more disgusting than such places when not well ventilated; and it is, we believe, the settled opinion of medical men, that man would live longer in close confinement with any other animal, than with man. Consumptive patients have been lodged in stubles, while their presence has been the 14th Dec. last, and the key placed in the hands of thought to be hurtful to their own family, confined and too closely lodged in the same room

There is no doubt, that horses are often diseased, by being kept too much crowded in stables, not well aired. dividuals, that the motion was kept up by some cause

mers to take possession, in fee simple, of these central prespondent, to show the reasonableness of the facts; of the truth of his own assertions, we have no more doubt than we should have of our own experience. The common opinion is, that pot-liquor is very wholesome and fattening to hogs; and so it may be, but that may be hecause a very great proportion of it is the liquor of other than hog meat: and because, as is known to be the case, it is made into a swill which contains many other nutritious ingredients. But let those who would make the experiment, and it is well worthy of being made, let them give a hog, for a short time, the liquor of hog meat only, or to a cow, beef soup, of which much is given to thera in towns, and we question if it would not be very soon discovered, that the effects would be such as the rough," but very intelligent and observing farmer, has described .-- Eu. Farmer.

#### Miscellaneous Selections.

ORIGIN OF RIVERS.

A question has long existed among philosophers, and has never been settled by universal consent, whether the rivers depend solely, for their supply, upon the water which descends from the atmosphere, or whether there is a kind of circulation of water within the earth like that of the blood in the animal economy, or that of the winds of the atmosphere, by means of which, perennial springs are constantly supplied, by some mechanical process in nature, from "the fountains of the great deep." Ricciolus affirms upon calculation, that the Volga, or the St. Lawrence, alone discharges annually, a greater quantity of water than falls in rain, snow, and dew ppon the whole surface of the globe. These and other known rivers are said, upon a very moderate calculation, to discharge more than five hundred times as much water into the sea, as falls in rains, &c. It would seem, therefore, that there must sub-ist subterraneous communications between the sea and the sources of fountains, civers and · larger springs, by which these are supplied; and this opinion is corroborated by the known existence of Charybdes which swallow the sea; if these happen to be stopped, the largest rivers have been said to be dried up, and wholly ceased to run for a considerable time. It is stated in Rec's Cycl pedia, that there are accounts in history, of this having happened to the Thames, the Medway, and the Trent, in England; the Elve, the Motala, and Gulspang, in Sweden, and other rivers in other countries. On the contrary, it these Charybdes happen to be too open, fresh water springs depending upon them become

#### INTERNAL IMPROVEMENTS.

The Hanoverians and Prussians have agreed to make the river Ems navigable within three years, for ships of 300 tons. By a communication whiel the latter have determined to make with the river Lipse, there will be a water communication from the north of Germany with the Rhine, from Embden to Wesel. The expense is calculated at 1500,000 sterling. Perhaps Embden may of the Eibe and the Rhine, by means of canals, would perhaps he the greatest possible improvement to the trade of Germany: but it is not to be expected, till public spirit shall pervade the disunited provinces of the confederation A canal is in contemplation between the Baltic and the fibe; but the way of executing it is not agreed upon -Lubeck would be ruined by the loss of the Russian trade, if the projected canal did not pass by it, as it easily might, by means of the river Stexnedx which plan has already been begun under the French Usurpation. Denmark wishes to lead it through Hols-In the human family we know, that nothing is more tem; Mecklenburgh wants it to go through its own territory from Wismar, to some little town on the banks of

PERPETUAL MOTION.

Mr. Spence, the ingenious inventor of the constant motion by means of magnetism, has placed one of his clocks, which is driven by the unecasing action of magnet, in one of the apartments of the Observatory, on the Calton Hill It was deposited there on the morning of Sir George Maekenzie, Bart Vice President of the Astronomical Institution. Mr. Spence was induced to take this step, in consequence of the assertion of several in-



## The Velocipede, or Swift Walker.

We furnish our readers with a representation of the Velociped and a particular description of it, taken from the London Observer, which is the best we have met with.

This truly original machine was the invention of Baron Charles De Drais, master of the woods and for-ests of H. R. H. the Grand Duke of Baden. The account given of it by the inventor, of its nature, and pro-

1. That on the well-maintained post-road, it will travel up hill as fast as an active man can walk.

2. On a plain, ever after a heavy rain, it will go six or seven miles an hour, which is as swift as a courier.

When roads are dry and firm, it runs on a plain at When roads are dry and firm, it runs on a plain at the rate of eight or nine miles an hour, which is equal vern. The proportions which this philosopher found to the thistles have not re-appeared.

Answer best, are the following:

While thinking on this subject, to a horse's gallop.

4. On a descent it equals a horse at full speed.

Its theory is founded on the application of a wheel to

the action of a man in walking.

With respect to the economy of power, this invention may be compared to that very ancient one of carriages As a horse draws, in a well constructed carriage, both the carriage and its load much easier than he could earry the load alone on his back; so a man conducts, by means of the Velocipede, his body easier than if he had its whole weight to support on his feet. It is equally incontestible, that the Velocipede as it makes but one impression, or rut, may always be directed in the best part of a road. On a hard road, the rapidity of the Velocipede resembles that of an expert skaiter; as the principles of the two motions are the same. In truth, it runs a considerable distance while the rider is inactive, and with the same rapidity as when his feet are in motion; and in a descent, it will beat the best horses in a great distance, without being exposed to the risks incidental to theia, as it is guided by the mere gradual motion of the fingers, and may be instantly stopped by the feet.

It consists of two wheels, one behind the other, connected by a perch, on which a saddle is placed, for the

the cushion, and preserve his equilibrium by pressing lightly on that side which appears to be risin. The rudder (if it may be so called) must be held by both hands which are not to rest on the cushion, that they may be at full liberty, as they are essential to the conduct of the machine, as the arms are to the maintenance of the balance of it (attention will soon produce sufficient dexterity for this purpose :) then placing the feet lightly on the ground, long but very slow steps are to be ta-ken, in a right line at first; taking care to avoid turning the toes out, lest the heel should come in contact with the hind wheel. It is only after having acquired dexterity in the equilibrium and direction of the velo juice exudes, the pressure is continued; the fluid grade feet, or to keep them elevated while it is in rapid motion ought to be attempted

The saddle may be raised or lowered, as well as the cushion, at pleasure; thus suited to the height of various

A new invented hobby-horse has been put into opeand the distance, which is three miles, is performed in fifteen minutes.

The road from tpswick to Whitton & when it is cold, take away the card and the whey at duct will not, on the whole, be injurious to their information in the distance, which is three miles, is performed in fifteen minutes.

The road from tpswick to Whitton & when it is cold, take away the card and at third time in rose was horses; and the distance, which is three miles, is performed in fifteen minutes.

The road from tpswick to Whitton & when it is cold, take away the card and at third time in rose was horses; and the distance, which is three miles, is performed in fifteen minutes.

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Import at to Stone Masons.

dry it becomes as hard as stone, and as durable; and ad dian thistle : hering with great tenacity to the surfaces of the stone which it is employed to cement, a whole wall becomes nother relse than one solid-stone. But this effect is proful to an chapies who work in mortar.

acid, and in the state of a very fine powder; the sand to give you the result of my experience on that head should be free from clay and partly in the state of tine --without, however, wishing to be considered a cansand partly in that of gravel; the water should be pure, didate for your premium. and if previously saturated with time, so much the bet-The best proportious, according to the experience

ed, and as little water as possible

Fine sand. Coment of well baked bricks, Slack Inae, Unslacked lime,

The same advantages may be attained by using as little water as possible in slacking the lime.

Higgins found that the addition of burnt hones improved mortar, by giving it tenacity, and rendering it

When a little manganese is added to mortar it acquires the important property of hardening under water, so that it may be employed in constructing those edifices which are constantly exposed to the action of water. Linie-stone is often combined with manganese; in that case it becomes brown by calcination .- Philad. Union.

#### Derivation of the word " Corset."

they are now termed, coasingle girl has since had occasion to give them their original appellation, they still Now, many of our printers make no scruple in gra-

#### How to make Starch.

cold water until it becomes soft and yields a milky juice by pressure; it is then put into sacks of linen, and press dections on the government of neighbouring states, sed in a vat filled with cold water; as long as any milky cipede, that the attempt to increase the motion of the ally becomes clear, and a white powder subsides, which is starch .- Dary's Elements of Agricultural Chemistry.

#### To Purify Rancid Butter.

sel, to which put soft water, working them well t gether, may see, by my example; that such a course of con-

The president of the Berkshire Agricultural Society, Mortar .- it is well known, that mortar is composed of has published the following letter, addressed to him by quick huse and sand, reduced to a paste by water. When scheral John Armstrong, on the subject of the cana-

RED HOOK, April 27, 1319.

Sir-Finding, by a publication, under your sigduced very imperiently unless the mortar is skilfully nature, as president of the Agricultural Society of pregured; a circumstance too little understood, or too Berkshire, that it is a desideratum with that body to outle attended to by those who generally have charge of discover st the means of extirpating the Canada thisthe preparation. The following directions may be use-tile in an economical way, practicable to farmers in The time should be pure, perfectly free from carbonic general," I have thought it would not be improper

Three years ago, a labourer pointed out to me a of course sand, one part of quick time, recently slack-Ida thistle. He was inable to suggest any means of killing it, but remarked, that it might be kept from The stony consistence which mortar acquires, is owing partly to the absorption of carbooic acid, but principal. Spreading, by heaping and burning upon it buck-wheat by to the combination of part of the water with the lime; or other straw As this method was but a palliative, this last encuerstance explains the reason why. If to I pursued another, and this was, to pour slowly upcommon mortar one fourth part of lime, reduced to on it, the fish, beef, and park pickle of my winter propowder, without being slacked, is added, the mortar, visions. In a few days there was not an appearance when day, acquires much greater solidity that it other wise would. This was first proposed by Loriot; and a of vegetation of any kind on the earth to which the number of experiments were afterwards made by Mor-pickle had been applied, and from that day to this,

> While thinking on this subject, I had determined (had the pickle failed) to try apple pummace, spread thinly over the thistles-knowing that malic acid would destroy the most vigorous and top-rooted

plants.

10

I am, sir, very respectfully, your obedient, homble servant, JOHN ARMSTRONG. Thomas Mclville, Jr. Esq.

less apt to crack in drying; but they ought never to ex-ceed one fourth part of the lime employed.

Dr. FRANKLIN'S plan for studying languages; hints on this subject—His entrance into mublic life-first turn of his thoughts on public affairs -His account of the arrival, character, and preaching of the celebrated Mr. Whitefield.

"In the conduct of my newspaper, I carefully excluded all libelling and personal abuse, which is of late years become so disgraceful to our country.-Whenever I was solicited to insert any thing of that Some twenty years ago, a fat English lady, having Whenever I was solicited to insert any thing of that visited Paris, obtained from a milliner a certain article kind, and the writers pleaded (as they generally did) of dress, much in vogue among belles and feminine the liberty of the press; and that a newspaper was seat of the traveller. The front wheel is made to turn on a pivot, and is guided in the same manner as a bath of an hour-glass. On her return, all the fat ladies were smitten like a stage-coach, in which any one who would pay of an hour-glass. She lost no time in exhibiting her exprint the piece; my answer was, that I would and by this means the instrument and the traveller are quisite person at a ball, but in the middle of the waltz, print the piece separately, if desired, and the author kept in equilibrio.

Its Management.

The traveller baving placed himself in the position represented in the cut his elbows extended, and his body inclined a little forward, must place his arms on the cushinn, and preserve his equilibrium by pressing library to be cushinn, and preserve his equilibrium by pressing library to be rising. The rule lowest the most fashionable, were decisive. Classe, or as he either useful or entertaining, I could not fill their library to be rising. The rule lowest heavest the either useful or entertaining, I could not fill their library to be rising. they are now termed, Corsets, became the order of the papers with private altercations in which they had no

tilying the mulice of individuals, by false accusations of the fairest characters among ourselves, augmen-To make starch from wheat, the grain is steeped in ting animosity even to the producing of duels; and are moreover so indiscreet as to print scurrilous reand even on the conduct of our best national allies, which may be attended with the most pernicious consequences These things I mention as a caution to young printers, and that they be encouraged not to pollute the presses, and disgrace their profession by Melt it with a slow fire, in a well glazed earthen ves such infamous practises, but refuse steadily, as they

school, and that when very young, after which I neglected that language entirely. But when I had attinue ininicable proceedings."

I began now to turn my thoughts to public affairs,
a city in the world better provided with the means
Spanish, I was surprised to find, on looking over a beginning however with small matters. The city of putting a stop to beginning conflagrations; and in Latin Testament, that I understood more of that watch was one of the first things that I conceived to fact, since these institutions, the city has never lost language than I had imagined; which encouraged me want regulation. It was managed by the consta-by fire, more than one or two houses at a time, and to apply myself again to the study of it, and I met bles of the respective wards in turn; the constable the flower have often been extinguished before the with the more success, as those preceding languages summoned a number of housekeepers to attend him house in which they began has been half consumed. had greatly smoothed my way. From these circum- for the might. Those who chose never to attend, [The account of Mr. Whitfield in our next.] stances, I have thought there was some inconsisten- paid him six shillings a year to be excused, which was cy in our common mode of teaching languages We supposed to go to hiring substitutes, but was in reare told that it is proper to begin first with the f at- ality, much more than was necessary for that purin, and having acquired that, it will be more easy to pose, and made the constableship a place of profit; attain those modern languages which are derived from and the constable, for a little drink, often got such formed as to the effect of shade and san on the fly, in to it: and yet we do not begin with the Greek, in or- ragamushins about him as a watch, that respectable bacco beds and we incline to think we were; though the der more easily to acquire the Latin. It is true, housekeepers did not choose to mix with. Walking the case, without using the steps, we shall more easily ingly the rounds too was often neglected, and most of the nights spent in tippling: I thereupon wrote a paper, would kill or drive it away. Now, it is a well known fact, gain them in descending; but certainly, if we begin to be read in Junto, representing their irregularities, with the lowest, we shall with more ease ascend to that the top; and I would therefore offer it to the constables, respecting the circumstances deration of those who superintend the education of of those who said it, since a noor widow housekeen. deration of those who superintend the education of of those who paid it, since a poor widow bousekeep our youth, whether,—since many of those who heer, all whose property to be guarded by the watch, the course of conversation with gentlemen from different gin with the Latin, quit the same, after spending did not exceed the value of fifty pounds, paid as much quarters fully convince us, that the original suggestion as the wealthiest merchant, who had thousands of simple as it seemed in itself, will lead to practical recy, and what they have learned, becomes almost pounds worth of goods in his stores. On the whole, sults in husbandry, at which the whole agricultural useless, so that their time has been lost—it would be not been lester to have been letter to have been letter to have been with the French as the results in husbandry, at which the whole agricultural useless, so that their time has been lost—it would be not seen lester to have been letter to have been letter to have been letter to have been letter to have been lester. not have been better to have begun with the French, proper men to serve constantly in the business; and stated the question. Since we threw out the suggestion, proceeding to the Italian and Latin. For though, as a more equitable way of supporting the charge, the after spending the same time they should quit the levying a tax that should be proportioned to the prospection of the sassafras tree thrown over the bed, will study of languages, and never arrive at the Latin, perty. This idea being approved by the Junto, was destroy them It is an ascertained fact, that the dry they would, however, have acquired another tongue communicated to the other clubs; but as originating bark of sassafras, pounded and sprinkled in the hair of or two, that being in modern use, might be service- in each of them; and though the plan was not imme any longy animal, whether biped or quadruped, will any long any long animal, whether biped or quadruped, will any long the line to disappear impediately after the first able to them in common life.

1736, clerk of the general assembly. The choice the law a few years after, when the members of our was made that year without opposition, but the year clubs were grown into more influence. like that of the members being annual) a new mem-lin the Junto, but it was afterwards published) on ber made a long speech against me, in order to fa- the different accidents and carelessnesses by which tion of it, is in a state of decociton. A respectable plantvor some other candidate. I was, however, chosen, houses were set on fire, with cantions against them, er, in t alvert county, effectually destroyed the fly, since pay for the immediate service of clerk, the place gave spoken of as an useful piece, and gave rise to a pro- and this flea-skipping fly is as great a barrier to the raisme a better opportunity of keeping up an interest ject, which soon followed it, of forming a company ing a supply of plants, as the Hessian fly is to making a among the members, which secured to me the busi-flor the more ready extinguishing of fires, and mu-crop of wheat ness of printing the votes, laws, paper-money, and tual assistance in removing and securing of goods of the Milite, Esq. has been appointed Caslier of the U.

other occasional jobs for the public that on the whom in danger. Associated in this city, vice James W. M Cultoh, other occasional jobs for the public, that on the when in danger. Associates in this scheme were Esq. removed. whole were very profitable. I therefore did not like presently found, amounting to thirty. Our articles tleman of fortune and education, with talents that good order, and fit for use, a certain number of leath-were likely to give him in time great influence in the ern buckets, with strong bags and baskets, (for pack-on the 1tth inst. a violent hail storm visited the counwere they to give him in time great influence in the ern buckets, with strong bags and baskets, (for pack-On the 1th inst. a violent hail storm visited the counhouse, which indeed afterwards happened. I did ing and transporting of goods) which were to be ty of Wilkes, (Geo that entirely destroyed the cotton, not, however, aim at gaining his favour by paying any brought to every fire; and we agreed about once a so that it will have to be replanted. The corn is beaten

made myself so much a master of the French, as to library, a certain very scarce and curious book, I to us upon the subject of fires, as might be useful in be able to read the books of that language with case. Wrote a note to him, expressing my desire of perus our conduct upon such occasions. The utility of this I then undertook the Italian: an acquaintance, who ing that book, and requesting that he would do me was also learning it, used often to tempt me to play the favour of lending it to me for a few days. He consume that the work of the scut it immediately; and I returned it in a week, with one company, they were advised to form another, time I had to spare for study, I at length refused to another note, expressing strongly my sense of the which was accordingly done; and thus went on one play any more, unless on this condition, that the vic- favor. When we next met in the house, he spoke new company after another, until they became so tur in every game should have a right to impose a to me, which he had never done before) and with numerous as to include most of the inhabitants who task, either of parts of grammar, to be got by heart, great civility; and he ever after manifested a readi-were men of property; and now at the time of my or in translations, &c. which tasks the vanquished ness to serve me on all occasions, so that we became writing this, (though upwards of fifty years since its was to perform upon honour before our next meeting: great friends, and our friendship continued until establishment, that which I first formed, called the as we played pretty equally, we thus beat one ano-death. This is another instance of the truth of an old Union Fire Company, still subsists; though the ther into that language. I afterwards, with a little maxim I had learned, which says, "He that has first members are all deceased but one, who is older pains-taking, acquired as much of the Spanish as to once done you a kindness, will be more ready to do by a year than I am. The fines that have been paid read their books also. I have already mentioned you another, than he whom you yourself have oblig by members for absence at the monthly meetings, that I had only one year's instruction in a Latin ed." And it shows how much more profitable it is have been applied to the purchase of fire engines,

"My first promotion was, my being chosen, in minds of people by the change, it paved the way for hogs, will have the same effect.

servile respect to him, but after some time, took mouth to spend a social evening together, in dis to the earth, and it is feared, will never come out.

this other method. Having heard that he had in his coursing and communicating such ideas as countril.

each company; so that I question whether there is

BAI TIMORE:

FRIDAY, M 1Y 28, 1819.

- 0000 = 0000-

A correspondent suggests, that we are grossly misindiately carried into execution, yet by preparing the rain. Chips, or the bark of it thrown into the beds of

The circumstance which originally led to the discovery that it would drive away, or destroy chines or chince following, when I was again proposed; (the choice About this time I wrote a paper, (first to be read bugs, was from its being observed that a bedstead was never infested by them, which was made of that wood.

We are inclined to think the most effectual applica-

whole were very promanie. I therefore did not like presently found, amounting to thirty. Our articles James A Buchanan, Esq. having resigned the office of the opposition of this new member, who was a gen- of agreement obliged every man to keep always in President, the vacancy was filled by the Board of Directlement of fortune and education with the vacancy was filled by the Board of Directlement of fortune and education with the vacancy was filled by the Board of Directlement of fortune and education with the vacancy was filled by the Board of Directlement of fortune and education with the vacancy was filled by the Board of Directlement of fortune and education with the vacancy was filled by the Board of Directlement of the control

this other method. Having heard that he had in his coursing and communicating such ideas as occurred the crops of most persons are more or less injured.

Captain Daniels, of the Oriental brig of war La Irre. sistable, was on Wednesday acquitted of the charges brought against him, which had occupied the attention of the District Court for some days. Pinkney and Winder were his counsel.

Capt. D. was tried on charges relative to the cruise of the Irresistable, previous to her being taken possession of by the crew at Margaretta, the particulars of which have been published. The acts of piracy subsequently committed by that vessel, are not, nor can they be, attributed to him. - Patriot.

#### HARD TIMES.

In this depressed state of commercial speculation, and when "hard times" is the mournful exclamation of every man we meet, it is gratifying to observe in d ferent sections of the country, a disposition to retreachment and economy, the only sure means of relieving ourselves, ultimately, from the effects of a national debauch-which we are now enduring, as an Eastern writer truly observes, "in an interval of languor and cickly depression." Meetings are convening, and associations forming, for the purpose of encouraging Domestic Manulactures, &c. In cases of emergency, the Americans have generally been found good at an alternative. The most feasible now, in order to smooth present difficulties, and secure future prosperity, is, like the industrious spider, to web from our own vitals. Enterprise, industry, and perseverance, will, if rightly directed, in a few years, do wonders. Let every mailook to his own conduct; there is no one so insignificant as not to be quoted as an example-let each one strive not to be quoted negatively.

The following resolution was passed at a very respectable meeting, in Newcastle, Delaware, on the 13th inst.

Resolved, at the sense of this meeting, that the present condition of this case calls for some plan, or system of conduct, tending to effect retrenchment, in our domestic expenses; to encourage our own industry; and to husband our own resources; that the best, and surest means of attaining these important ends, are, a temporary discontinuance of the use of imported merchandize, as far as may be found practicable and convenient; and of imported vinous and ardent spirits; and in lieu thereof, to encourage the use and consumption of the products of the skill and industry of our own state; that an association of citizens, with a view to these important object, might prove eminently useful, and instrumental towards their prometion & accomplishment: therefore, further Resolved, that a committee, to consist of nine persons, be appointed, to devise and prepare a plan of Government for such an association; and to collect such facts and information as may serve to shew the utility and practicability of the plan; and to make report at the next meeting.

The following valuable recipt has been kindly communicated by a friend, who has frequently witnessed its efficacy, and believes it to have saved the lives of no less than three persons in this city. We consider him as having done a great service to the community by enabling us to publish it.

Cure for an ulcer of long duration, and generally deemed in-.curable, not what is called the inflammatory ulcer.

Take Lunar Caust	ic,		20 grains.
Extract of Lead,			1 ounce.
White Vitriol,			1.2 ounce.
Corrosive Salt,		,	12 grains.
Soft water, .			1 1-2 pint.

The ulcer to be washed with a mop, or used as a gargle for the throat, as often as the patient can bear it. The application may be assuaged by a wash of sage tea, or honey, immed ately after the gargle is applied. One or two spoonsful of flour of sulphur may be taken night or morning. A sweetened decostion of the woods may be taken at the same time, and an invigorating diet-may be **u**sed

Exeter, N. II. May 18 .- At a special meeting of the New Hampshire Medical Society, May 5th 1819, the following gentlemen were elected delegates to meet in convention with the delegates from Massachusetts, Vermont, Connectiout, Yale College, and Rhode Island, on the first day of June next, in Boston, for the purpose of forming a Pharmacopæia, and to take measures for a national convention, to form an American Pharmaco pæia. Doetors Reuben D Mussey, Ebenezer Leonard, Matthias Spalding, and John C. Bachelder were appoint-

Latest from Hennaa .-- By the arrival of the brig New-Jersey, Capt. Reeves, 15 days from Havana, we learn that the report of the cession of Cuba to the British, is not correct. The passengers who came in the brig, sav, that Sie Home Popham only touched as Havana, on his way from lamaica, and that he sailed with his squudron for England, on the 1st of May .- N. Y. paper.

Biston, May 21.-We understand that Mr. Bigot, the British ambassador, approxing of a new invention by Mr. Perkins, late of Newburyport, applicable to the making of bank bills, has agreed with him to visit England, with six assistants, to put his system in operation for the Bank of England II this plan is successful in rendering counterfeits impossible, it will destroy a powcriul temptation to crime, save hundreds of lives, and thousands of pounds annually, to the bank and individu

New-London, (Con.) May 19.

Messrs. Perkins and Tappan, engravers, from Newburyport, passed through this place on Manday last, on their way to London, where they are to be employed in engraving for the bank of England. Mr. Bagot, we understand, has paid them in advance, 50001, and if they succeed in their business, of which there can be no. doubt, they will also receive 10,000l. in addition. Mr. Fairman, of Philadelphia, is also attached to the com-

Wilmington, Det. May 19 .- The Grand Jury of New-Castle county, heg leave to represent-That they are deeply impressed with the distressed and calamitous situation of the agricultural, commercial, and manufacturing interests of the state; that, in their opinion, these evils have arisen from the failure of crops, and an unfavorable balance of trade-the results of excessive importations of foreign goods, exceeding to an immense amount, the value of our exports; thus draining the state of its specie and eirculating medium; depressing the value of real estate, and increasing poverty and distress.

The only practical remedy for these evils, in the opinion of the Grand Jury, are a regular and strict economy in the expenses of the people; a retrenchment in the use of imported goods, and imported luxuries; a steady attention to the improvement of our agricultural products; and the encouragement of a market at home, by fostering domestic manufactures.

To a serious consideration of this important subject, the Grand Jury would most earnestly invite the attention of the citizens, more especially of this county.

Attest. ARCH. ALEXANDER, Foreman.

S. H. BLACK, Cth. of G. J.

Wonderful Expedition .- The Post Chaise Line, via Staten Island left New York on Monday morning, quarter past 2 o'clock, and arrived here 5 minutes before 11 o'clock, bringing us the New York Newspapers of the same morning, having performed the route in 8 hours, 40 minutes. The passengers dined at Renshaw's elegant Hotel, and having transacted their business, reterned in the same Line to New York, where they intended taking an early supper.

The Citizen's Post Coach left New York on Monday morning, at 5 o'clock, and arrived at Judd's Hotel, 5 minutes before 1 P. M. By this Line, we also received the New York papers of Monday morning. Route, by daylight, performed in 7 hours, 55 minutes.

Can any thing in Europe equal this?—Phil. Fre. Jour.

The Whale Fishery .- The following is the amount of shipping owned in the Island of Nantucket, and port of New Bedford, and employed exclusively in the whale fishery, (up to the first of March last,) viz.

Nuntucket, 57 ships, 15551 tons,

Natureket, 57 engs, 1065—16616

N. Bedford, 26 ships, \* 7274
11 brigs, 2107--9382—25997

\*In addition to this number, 3 ships are now on the stocks, intended for whalemen.

Commodore Perry passed through New York, on the 22d inst. on his way to Washington; having received orders, it is said, to proceed to sea immediately, in the John Adams, now at Annapolis. Destination unknown.

The dwelling house of Mr William Cobbett, on Long Island, Y was lately destroyed by fire. His books, papers, and seeds, were saved. His principal loss was in bedding, &c.

Disputch of Business .- The Legislature of Rhode Island met at Newport, on Wednesday, the 5th inst. elected their officers, read over the returns, and counted the votes for Governor, &c. &c. On Thursday, Gov. Knight, and other general officers cleet, were sworn into office. Both houses, on Friday, ballotted for the civil appointments throughout the state, public notaries, justices of peace, &c. &c. Same day, the house of representatives mamimously passed a vote of thanks to Samuel Eddy, their late secretary, for the distinguished talents and fidelity, with which, for more than twenty-one years, he had discharged the arduous duties of said office. The Legislature then adjourned, having been in session nearly three days .-- Dem. Press.

#### ODE ON SOLITUDE.

Written by ALEXANDER Pope, when about twelve years old.

APPY the man, whose wish and care, A few paternal acres bound, Content to breathe his pative air,

Whose herds with milk, whose fields with bread, Whose flocks supply him with attire; Whose trees in summer yield him shade, In winter, fire.

In his own ground.

Blest, who can unconcern'dly find Hours, days, and years, slide soft away, In health of body, peace of mind, Quiet by day:

Sound sleep by night; study and ease, Together mix; sweet recreation, And innocence, which most does please With meditation.

Thus let me live, unseen, unknown; Thus unlamented let me die, Steal from the world, and not a stone Tell where I lie.

Present prices of Country produce, in the Baltitimore market.

The times are calamitous, beyond any thing that ever was experienced in Baltimore; and so great is the consternation, that no business is done, except, to use a vulgar saying, from hand to mouth. Such is the prevailing confusion and distrust, that we feel great embarrassment in attempting to state the price of any thing which should be taken as a guide to the agriculturist,-one might as well attempt to measure the height of a tree, in the midst of a passing tornado The article which has suffered the greatest depression, under these circumstances, is tobaceo; so great has been the change, that we forbear to state any price, until it shall have appeared to take a permanent stand again, lest we might mislead and induce our friends in the country, to sacrifice their property. When we cannot hold out to them a steady light, we will not venture to show one which might prove an ignis fatuus. If sales were now forced, suffice it to say, that tobacco would not sell for as much, by fifty per cent. as last week. What is to be done now? says the Planter who was anticipating high prices, and spending them by anticipation. Why, though he may think the case hard, the remedy is plain. Let us turn over and examine carefully every department of the household--let us se**e** what luxury we can forego-what expense we can retrench, if it be but -ix cents per day--let us see by what expedients we can fertilize our land, and so increase the quantity, as to make up for the falling off in the price, of our produce.

"For age and want, gain while you may, "No morning's sun lasts a whole day."

Gain may be temporary and uncertain; but ever while you live. expense is constant and certain; and it is easier to build two chimnies, than to keep one in fael, as poor Richard says; so "rather go to bed supperless, than rise ın debt."

Flour is \$5 from the wagous. Wheat, red, \$1 to 5

white, \$15 to 115. Ruc-75 cents.

Corn-45 cepts. Outs-45 cents.

Beef, In to 12 1 2; Mutton, 10; Veal, \$1 to 1 25 per quarter, from the wagons; Eggs, 15 cents per dozen; Potatoes, 25 cents per peck, in the market; Butter, 37 1-2 cents.—Hay, per ton, \$17; Straw, do. \$14 a 15.

## PIRCES CURRENT

#### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

ARTICLES.	PER.		PRICES
BEEF, Northern mess	bbl.	17	1
No t		15.	
No 2		13 50	10
Bacon,	lb.	18	20
Butter, Ferkin	1	33	~~[
Coffee, first quality, second do.		27	28
Cotton,	1	27	1
Twist, No. 5,	-	45	1
No. 6 a 10,	1	46	50
No. 11 a 20,	1	53	90
No. 20 a 30,	1	80	1 20
Chocolate, No. 1,	1	33 28	1
No. 2,	1	25	1
No. 3,	box	20	22
Candles, mould,	501	18	19
spermaceti, -	1	45	scarce
Cheese, American,	lb.	10	15
Feathers,		60	65
Fish cod. dry	qtl.	\$ 50	,
herrings, Susquenannan,	bbl.		retail
mackarel, No. 1 a 3		9 7 75	12 7 87
shad, trimmed,		5 50	6
Flour, superfine,	bbl.	1	5 50
fine, middlings,	1001	4 50	1 1
rye,		4 a	4 25
Flaxsecd, rough,		k nonc.	
cleaned,	bus		
Flax,	lb.	do	15
Hides, dryed,	· }	12	1
Hogs lard,		25	
Leather, soal,	. gal		
Molasses, Havana, New Orlcans,	Par	78	
sugar house,	-	1	1
. Oil, spermaceti,	- gal		
PORK, mess or 1st quality, -	bbl		20
prime 2d do ·	- 1	16 a	17
cargo 3d do		14 a	15
Plaster,	tor hb		5
ground	- lb.	• -	6
Rice, SPIRITS, Brandy, French, 4th pr			3
peach, 4th pr	oof	1 2	5 1 50
apple, 1st pr		7	
Gin, Holland, 1st pr	oof	1 5	0
do. 4th pr	1000	١.	1 6
do. N. England	- 1	1 5	0 2
Rum, Jamaica, American, 1st pr	oof		5
American, 1st pr Whiskey, 1st pr		1	0 62 1-
Soap, American, white,	- lb	.   1	8 2
do, brown, -			9
Sugars, Havana, white, -	-		19
brown,	-	12	15
loaf,	- lb		25 a 2
lump,			70
Salt, St. Ubes, Liverpool, ground,	- 10		75 1
Shot, all sizes, -	- h		12
TOBACCO, Virginia fat, -		wi 7	
do middlings	з,		50
Rappahannock,	1	5	5 5
Kentucky,	,  ,,	3	50 7 5
small twist, manufacture	:a, III		25 S
pound do	1		63
TEAS, Bohea, Souchong,	- 11	ь.	75 a 10
Hyson Skin	. f		75 a 1
Young Hyson, -	- }	1	25 a 1
Imperial,	-	1	75
WOOL, Merino, clean, -	-	1	80
unwashed,	-	1	40
crossed, clean	-		65 35
unwashed, common country, clea	- n.		37
unw:	ashed	1	25
skinner's,	- "	1	នទាំ
	,		

### RATES OF EXCHANGE.

OF BANK BILLS.

Corrected monthly for the American Farmer.

			11
Ţ	Branches of the U. States' Bank not paya-		17
1	able at Baltimore.	par	
ŗ	Boston Banks	par	f
•	NEW-TORK.	1	J
(	City Banks	par	
`	NEW-JERSEY.	,	
c	State Bank Camden	par	
	Frenton, Newark, and Brunswick,	i dis.	
,	Mount Holly Bridgetown, &c.	1 do.	
1	PENNSYLVANIA.		١.
	Philadelphia,	par a a3-4	l
	Stephen Girard's Bank,	par a do.	
ì	Chester, Easton, Harrisburg, Montgomery, )	1.8%	ı
ľ	Hulmeville, Germantown,	r ars.	ŀ
١	Carlisle Bank, Ebambersburg, Gettysburg,	1 1-2 a 2 do	
l	York, Lancaster, and Columbia Bridge,	1 1-2 a 2 an	l
ı,	Carlisle, (Agricultural)	nominal.	l
	Bank of Pittsburg,	647 1-2 dis.	l
	Westmoreland, Bedford, Brownsville,	- aminat	١,
l	Meadville, Centre, Huntingdon, Milton	nominat.	Ľ
ŀ	DELAWARE.		ľ
ł	Bank of Delaware,	1 a t 1-2	11
	Wilmington and Brandywine,	1 a 1 1-2	h
١	State Bank at Dover, and Branches,	1 a 1 1-2	١
Į	Laurel,	50 dull	1
l	Smyrna and Milford,	8	Ł
l	DISTRICT OF COLUMBIA.		ł
١	Gergetown Banks,	1 dis.	1
Ì	Alexandria Banks, (excepting the Mc-	} 1 do	1
1	Mechanics and the Franklin.	<b>)</b> - · · ·	1
١	Mechanics of Afexandria,	20	1
١	Franklin of Alexandria,	50	1
ı	VIRGINIA.		1
1	Bank of Virginia, Farmers' Bank, an	d } 1 1-2	1
1	Branches,	)	١
,	Unchartered banks, various	7 1-0 a 25	1
)	Saline and Parkersburg	no sale	1
	NORTH CAROLINA.	0.1:0.1.	1
	State Bank and branches	6 1-2 do	
	Newborn and Cape Poar	7 1-2 drs.	٠ ا
	SOUTH CAROLINA AND GEORGIA.		1
	Bank Bills	$2\frac{1}{2} a 3$	1
	OHIO.	` -	
	Chillicothe, Marietta, Muskingum, Urban.		ļ
	pa, Stubenville, &c.	15 a 25*	
	Mount Pleasant, Montpelier, New Lishon,		
0	St. Clairsville, &c.	J	4
U		etore our nex	. L
	report, they may vary generally 1.2 a 1 pe	r cent, excep	14

#### AMUSEMENT.

those marked thus \*, which are more fluctuating.

### The Irishman.

From the Gleaner.

Mr. Editor.—The Irish are proverbially hospitable. Travellers, orators, essayists, pnets, all are liberal in their encomiums upon trish hospitality. I beg leave to relate a little incident which occurred in the United States, from which it will appear that Patrick O'Flaherty took a very strange meth od of shewing this characteristic virtue of his covntrymen. During the late war a poor and miserable soldier, having received an bonorable discharge from 50 the American army, was returning home to New-York; naked, pennyless, and crippled by a musket hall, which he received at Fort Erie, under the galloo lant Gen. Gaines. It was night when he reached the snug and comfortable mansion of Patrick O'Fla-libo herty. The poor fellow exhausted with fatigue and hunger, knocked at Patrick's door, and begged quarters for the night, when the following conversation ensued between them. Patrick. And who in the devil are you now?

Soldier. My name is John Wilson

Pat And where the devil are you going from John Wilson?

Sol. From the American army at Erie, Sir.

Pat. And what in the devil do you want here?
Sol. I want shelter to night—Will you permit
me to spread my blanket on your floor and sleep to
night?

Pat. Devil take me if I do John Wilson-that's flat.

Sol. On your kitchen floor, Sir?

Pat. Not I, by the Hill of Heath—that's flat.

Sol. In your stable then?

Pat. I am d—n'd if I do that either—that's flat.

Sol I am dying with hunger—give me but a bone and a crust; I ask no more.

Pat. The devil blow me if I do, sir—that's flat. Sol. Give me some water to quench my thirst, I beg of you.

Pat Beg and be hanged, I'll do no such thing-that's flat.

Sol. Sir, I have been fighting to secure the blessings you enjoy; I have assisted in contributing to the glory and welfare of the country, which has hospitably received you, and can you so inhospitably reject me from your house?

Pat. Reject you! and who in the devil talked a word at all at all about rejecting you? May be, I am not the scurvy spalpeen you take me to be, John Wilson. You asked me to let you lie on the floor—my kitchen floor! or in my stable! now, by the powers, d'ye think I'd let a parfect stranger do that, when I have half a dozen soft feather beds, all empty! No, by the Hill o'Hoath, John—that's flat In the second place, you told ine you were dying with hunger, and wanted a bone and crust to eat—now, honey, d'ye think I'd feed a hungry mao on bones and crusts, when my yard is full of fat pullets and turkeys, and pigs? No, by the powers, not I, that's flat.

In the third place, you asked me for some simple water to quench your thirst-now, as my water is none of the best, i never give it to a poor traveller, without mixing it with a plenty of wine, brandy, whiskey, or samething else, wholesome and cooling. Come into my house, my honey; divil blow me, but you, shall sleep in the best feather bed I have; you shall have the best supper and breakfast that my farm can supply, which, thank the Lord, is none of the worst-you shall drink as much water as you choose, provided you mix it with plenty of good wine, or spirits, and provided also, you prefer it. Come in, my hearty-come in, and feel yourself at home-It shall never be said, that Patrick O'Flaherty treated a man scurvily who has been fighting for the dear country which gave him protection-that's flat.

Farmers! attend to your orchards; catterpillars are now forming their nests, and, we are told, they are exceedingly numerous—now is the time to destroy them. One hour in the morning, spent in your orchards, for a few days, will enable you to store your cellars with the best liquor the country affords, and to pay off your mechanics;—begin io season: delays are dangerous.

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#### FOR JOHN S. SKINNER, EDITOR,

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#### BALTIMORE,

At four dollars per annum, payable in advance.

EBENEZER FRENCH, PRINTER.

# AMERICAN FARMER.

# Rural Economy, internal improvements, news, prices current.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIRG.

Vol. I.

# BALTIMORE, FRIDAY, JUNE 4, 1819.

 $N_{UM}$ , 10.

## AGRICULTURE.

From the Memoirs of the Philadelphia Agricultural Society.

## Notices for a Young Farmer,

Particularly one on Worn Lands; &c. &c.

WITH NOTES BY THE EDITOR OF THE FARMER.

[Continued from No. 9, page 66.]

Change of crops recommended. Harrowing winter grain in the spring. Plants should be accommodated to the soil, rather than the soil to the plant. Food of plants ; diversity of opinions concerning it. Changes of Forest Timber. Mr. Knight's theory as to ages of trees. Repetitions of same species of grain, or grass. Clover fails after frequent repetitions. Seed shallow, however deep, may be your breaking up-

VII. CHANGE YOUR CROPS, and be satisfied with a good one on a small surface well prepared; taking a pride in clean and neat farming, rather than wasting your labor and means, in extensive, slovenly, manifold produce will remunerate for the few de quires loose earth in its fancy.

ization. The Author of Nature has placed in their tablished. proper element, both plants and animals, and they Mr. Knight's theory, tested by strong facts, is now which will grow in defiance of the surges, sponta-struct himself. neously, after the first seeding, and produce perpet- The same kind of grain has been sown, in long more instances, to show the principle, might be added. The tussilage, or colt's-foot, delights in meagre soils, and making them rich, especially with any other plant.

After such interruptions, clover may profitably again concludes that it ought not to be deposited more than take its course in the rotation. And thus it will be with any other plant.

Whatever be your change of crops, good farming will lit. It were to be wished, that our will garlick were thus vulnerable. Meagre soil, of should be invariable. Wheat or barley, at worm pagated by scattering the manure before the seed have any texture cannot equal that naturally fertile, in lands, without good tillage and manure, will not re-been completely rotted.

the production of any plant; but manure operates pay the expense of culture. However deep you with double efficacy, on a plant in its proper soil Nor is it intended to say, that, in all cases, change led near the surface, and the plume and radicles pering a plant from a worse to a better soil, (avoiding ish, in whatever depth the seed be deposited. The extremes,) is otherwise than salutary; for some harrow lass your field more level and fit for a cover plants are thereby improved. But such plants must of grass, than the plough; and, on this account, soils. Wheat is, fortunately, a plant capable of their fields in elevated lands; which, unless your soil being indigenated in any soil or climate, yet of this be wet and low, are onnecessary. But care must grain, there are species growing better in some, than always be taken to draw furrows, as drains, where in other soils. There are wheats for sand, and water would be likely to remain, and drown, or scald wheats for clay. The grasses (commonly so called,) have varieties, strikingly adapted to appropriate rowing in your grain, is, that after your field is pre-

It is not intended to enter into the questionswhat is the food of plants? and whether particular cess of ploughing in your seed, would not permit. soils are, more than others, furnished with the pabulum for the plants natural to them? and whether as those desire who plough in their seed. This mode every plant requires specific food, which being exopinion seems to be, that all draw their nourishment mouldering in winter, and protecting the plants, but of a common magazine, in the air and the earth; and laying deeper hold when grain is ploughed in, out of a common magazine, in the air and the earth; the organs of each being formed to draw the sustenance peculiar to it, and most of this from the and ill requited culture. Harrow your winter grain air. Such questions are unsettled, various opinions in the spring, in the direction of the seed furrows, being entertained concerning them. The changes or drills, and he not afraid of disturbing a few plants; of timber and plants in our forests, were mentioned las indications of nature, that our crops should be stroved. The cracked and baked surface, is thus changed. Most unwarrantable imputations have pulverized, and the harbors for insects broken up. been cast on the writer in the Philadelphia Memoirs. See Philadelphia Agricultural Memoirs, 3d vol. who communicated the circumstance, now known to 24, 50. The wheat plant throws out sets of roots levery body, as if he believed in a new creation, or in the successive stages of its growth, and most re-lin equivocal generation, than which nothing is more uires loose earth in its fancy.

Accommodate your plant to the soil, in preference 2d vol. p. 358. Theorists "bear, like a Turk, no to fitting your soil to the plant: every plant requir-brother near the throne." But the facts were bare ing a peculiar attention to its own habits and organ- ly related, and no theory was attempted to be es-

are suited to their designated positions. Sand or much credited, although at first received with great rnck plants, perish in clay or rich soils, as do those opposition. He alleges, that trees have their recalculated for fertile ground, in sand. See a valua- spective ages, beyond which the race becomes exble essay on this subject, 14th vol. Bath Society tinct. On fruit trees, many experiments seem to Papers, (1816) page 136. By a careful attention prove this idea correct. Grafting, or budding, from to the facts and principles developed in this essay, old trees, is now abandoned; it being asserted, that apparently barren sands and sterile clays, may be the one thus propagated, will endure no longer than made to produce profitable crops of appropriate the allotted age of the parent tree. This subject is plants. Our sea coasts, on their dreary, sandy, or elaborately treated, in British publications; with pebbly beaches, might be filled with Marine Pea, which the curious inquirer may amuse, if not in-

ual crops of nutriment, for horned cattle, sheep and succession, in several instances. But these, being swine, either on sea coasts, or the borders of lakes. exceptions to general experience, should be consid-The trifolium maritimum, (sea trefoil,) would grow ered as anomalies. Clover fails, after frequent reluxuriantly in salt marshes, and take place of the petitions, and the Europeans interrupt the succesinferior vegetation now occupying them. Many sions of this grass, by sowing tares and vetches.

plough, seed shallow [a]. The coronal roots are formnot be those exclusively calculated for particular many harrow in their grain, in preference to laying your plants. A great advantage derived from harsoils; and such peculiarities should be carefully pared for seeding, you can rapidly sow and harrow in your seed, and have the choice of weather and other circumstances, which the more tedious pro-The last ploughing may be in broad furrows, as deep every plant requires specific food, which being ex. is equivalent to their practice, and has the addition-hausted, degeneracy or death ensues? The general all advantage of the harrow. The idea of clods are excuses for bad culture. Pulverize your soil, and draw furrows for drains, when necessary, and the plant will root luxuriantly, and want no clodmouldering.

Plaster old fields for pasture and subdue weeds. Some remarks on Plaster.

VIII. PLASTER YOUR OLD FIELDS; which, being full of decayed and inert vegetable matter, on which the plaster acts, will throw up pasture, until you can cultivate them in course. We are not yet perfectly acquainted with all the properties of plaster. The general current of facts prove, that salt, and salt air, are hostile to its operations. And yet there are instances where it has succeeded on our sea-board, as well as on farms remote from our

Subdue weeds, and other pests, in the fields thus plastered, and all others, by the scythe, and as much hand weeding as you can afford. Weeds are your deadly foes; but, in the compost heap, they may be converted into friends[b]. Whilst overrunning your fields, they are robbers of the food which would supply wholesome and profitable plants. The expense or labour of eradicating them, is far more formidable in contemplation, than in reality it will be found. ORCHARD GRASS; its value, and advantages over Timothy or Clover. Remarks on its culture, and seed. Poa wridis, or Green Grass. Fiorin Grass. Poisonous plants to be eradicated. Botany; its use in farming.

IX. Sow Orchard Grass, if in autumn, harrow it in with your winter grain. Some prefer sow-

[a] A valuable essay on the proper depth of sowing small gram is to be found in the Richmond Engineer, written by Mr. Mehriwkther, dated 31st May, 1818; he

ing it in the spring. Much depends on the soil anreason, and you can try both modes and periods, to This grass enable you to form the best opinion. will be permanent, when clover (with which it is a profitable companion) fails. It is, on uplands, preferable to timothy, which is a great exhausteryields but one crop of hav, and little or no pasture. on dry soils; thus leaving the field hare of cover and exposing it to the exhaustion of the sun and winds; whilst orchard grass, by its quick and repeated growths, affords a ceaseless cover and defence.

By thus recommending Dactylis Glomerata, for permanent pasture and hav, it is not intended to cast the least reflection on the clover culture. now so commonly practised, and its uses so generally acknowledged, that it is unnecessary to dwell on its excellent proporties. But the clover is fugacions. (short lived) and the orchard grass, sown with it, endures in uninterrupted vigor and useful ness, when clover, in dry seasons particularly, is burned or shrivelled, or has entirely departed, having lived out its short period of existence; or having been prematurely destroyed by frosts, to which it is often a victim. The clover and plaster are so congenial, and the improvement of the soils suitable for them so universally known, that any detailed notices of them would now be superfluous.

Raise your orchard grass seed, and do not spare it on your fields. Thin sowing throws up tufts, detached and coarse. You buy, in the shops, much chall, and little seed; insomuch that a bushel weighs only from 14 to 16 pounds, at best, and some much less, barely sufficient for an acre. It should be sold by weight and not by measure. No grass seed can be raised more plentifully and cheaply; and yet the expense of purchasing has deterred itmore general use.

It will be difficult to keep an old weedy farm long in grass; and the plough must, therefore, be oftener used than a clean farm requires. Yet with composts, as top dressings, and destruction of weeds, wonders may be performed in a grazing system. But when the old sod is broken up, time, as well as good husbandry, with proper courses of crops, must be afforded. No winter grain should be suwn, the first season of treaking up old grass lays. The stirring and culture of that and the ensuing year, are necessary to moure the complete destruction of weeds and other unprofitable vegetations.

If you should be so tortonate as to conquer weeds and pests, and obtain a clean cover of the nog viridis, or green grass, which will not grow nomixed in all soils; it is not to be told how long your fields with top dressings, will continue without heing disturbed by the plough, if scarified, when surfacebound, by a proper justrument. This grass appears to be native, though not peculiar, to this country: and it must according to general experience, grow sportaneously.

Plants spring up in soils in which they are indigenous, without previous seeding. The experiment of cleaning by tilling, and meliorating by manure, work out lands, and suffering them to throw up grasses spontaneously, has decisively succeeded, so as to insure valuable crops of the appropriate kinds: which finally established themselves, after contending with intruders for a time. White clover seems must nurversally native; but this grows better in some, man in other soils.

Those who do not attend to the laws of nature in 120,000 to \$140,000."

this regard, suppose that they can, with plenty of manure, force plants in any soil; but this is a great mistake. Garging land with dung, for any product, is expensively ruinous. There is no surer sode of first deteriorating, and finally destroying, any plant out of its natural soil, than that of lavishingly dunging it. And this misapplied extravagance, is injurious to plants, either of rich or poor The latter are, however, the soonest killed by high dunging.

Yet, take it for all in all, changing crops, or what is called convertible husbandry, in which grass, for a reasonable period, is only a part of the rotation. will be found the most suitable to the circumstances of our country; save in such grounds in which the plough cannot be fitly introduced, and are, from their nature and situation peculiarly calculated for grass. For many such soils, those particularly which are boggy and wet, it would be unpardonable not to mention the Agrostis Stolonifera, or Fiorin grass; by means whereof wanderful improvements might be introduced in soils fit for no other crop. Its repu tation is now so completely established in Great Britain and Ireland, that objections to its culture have been entirely overcome. Failures in England have occurred, from want of care in cultivating the true species; and thus bringing its character into The agrestis rulgaris, has been used, disrepute. instead of the stolonifera, than which there cannot be a greater mistake. Those who make expenments among us, should be very careful to obtain the true kind of this plant. It is a wise plan to cultivate and bring to the most perfect state, the plants congernal to your soil, and to avoid foreing by artificial and expensive operations, the growt of time which only serve a turn and do not permanent in shide, or are subject to disease and casualties. warch appropriate plants escape. Although Fiorra all glow in most soils, it can only be profitably employed in moist or boggy grounds.

He careful to eradicate all poisonous plants, in your pastures and fields. You will find in books, what you want in experience, proofs of the necessity of this precaution; and you will learn the dangers to which eattle are liable in this regard. Some plants are poisonous to some beasts, though safe and salutary to others. A reasonable knowledge of the usc. ful parts of BOTANY, without buithening yourself with its endless nomenclature, would enable you to distinguish plants and their properties. A pocket enemics infesting them, but by it you could exa ine the particles composing earths, and ascertain their qualities and uses. This would afford entertainment, whilst it promoted your interests. Nothing is more necessary in the inspection of seed. whether of grain or grasses; you can discover, ny your glass, unsoundness or malad, in the one, and mixtures of worthless and mjurious seeds in the other. No person should trust the naked eye, when purchasing grass seeds particularly, wherein poisonous or pestiferous seeds are frequently mixed, and many are so minute as to be invisible to unas-[ To be continued.] sisted sight.

The Sciota (Ohio) Gazette, of May 14, says "On Friday morning last two wagons, loaded with specie, from the Branch of the U. States' Bank in this place, took up the fine of march for Philadetphia. The amount of specie which has thus left our state, is estimated at from

# Treatise on Agriculture.

SECTION I.

Of the rise and progress of Agriculture.

The origin of this art is lost among the fables of antiquity, and we have to regret, that in the present state of knowledge, we are even ignorant of the time when the plough was invented, and of the wame and condition of the inventor. When, therefore, we speak of the heginning of the art, we but Hude to cert in appearances which indicate its existence; and the employment given by it to the minds, as well as to the hands of mankind. Such were the artificial canals and lakes of Egypt. Menaced at one time by a redundancy of water, and at another by its scarcity or want. the genins of that extraordinary people could not but employ itself, promptly and strenuously, in remedying these evils, and eventually, in converting them into ocnefits; and hence it was, that when other parts of the world exhibited little more of agricultural knowledge than appertains to the state of nature, imagined by philosophers, the Egyptians thoroughly understood and skilfully macrised irrigation, that most scientific and profitable branch of the art (1) Like their own Nile, their population had had its overflow, which colonized Carthage and Greece, and carried with it the talent and intelligence of the mother country. The former of these states, though essentially commercial, had its plantations, and so highly prized were the agricultural works of Mago, that when Carthage was captured, they alone, of the many moks found in it, were retained and translated by me Romans. A similar inference may be drawn from the history of Greece; for assuredly that art ould not have been either unknown or neglected, which so long employed the pen and the tongue of the great Xenophon. (2) It must, however, be admitted, that of the ancient nations, it is only among the Romans, that we find real and multiplied evidences of the progress of the art; facts, substituted or conjectures and inferences. Cato, Varro, Columella, Virgil and Pliny, wrote on the subject, and it is from their works we derive the following brief exposition of Roman husbandry. The plough, the great instrument of agricultural

labor, was well known and generally used among them; it was drawn exclusively by horned cattle. mugnifying glass should always be at hand, as not Of fossile manures, we know that they used lime only highly useful in distinguishing plants and the land probably marle, (3) and that those of animal and vegetable basi, were carefully collected. Atention to this subject, even made part of the naional religion; the dunghill had its god, and Stercutus, his temple and worshippers. Their corn crops were abundant; besides barley and far, (4) they had three species of wheat; the robus or red -the sitigo or white-and the triticum trimetre, or summer wheat; they had, hesides, millet, panis, zea, (Indian corn) and rye, all of which producing

<sup>(1)</sup> The best practical illustration of this opinion is found in the valley of the Po- where "every rood of earth maintains its man."

<sup>(2)</sup> Xenophon wrote several treatises on hosbandry, and gave public lectures on it, at Scillonte, whither a weak and wicked government had banished him.

<sup>3)</sup> For the first part of this assertion we have the auhority of Pliny; for the latter, the practice of their colomes both in Gaul and Britain.

<sup>(4)</sup> Of this last, there were three kinds, neither of which is now cultivated.

all or convittele into la at, ore kana common name of framentum. Legumin as crops abundance, and besides being employed as a manure, (5) entered extensively into the subsistence of ions; wherever her legions marched, her knowledge, men, cattle and poultry. The cultivation of gar- practices and implements followed, and it is to these den vegetables was well understood and employed we are to look for the foundation of modern agrimany hands; and meadows, natural and artificial, culture in Italy, France. Spain, &c. were brought to great perfection. Lucern and fenu-grass were the basis of the latter, and peas called farrago, were occasionally used in the stables as green food. Their flocks were abundant and formed their first represent tive of wealth, as is sufficiently indicated, by their word pecunia. Vines and olives and their products (wine and oil) had a full share of attention and use. The rearing of poul try made an important part of domestic economy, nor graphical position, draws its principal subsistence were apiaries and fish ponds forgotten or neglected.

Such was the husbandry of Rome, when Rome was mistress of the world, and it was to this illus trious period that Pliny alluded, when (speaking of the ancient fertility of the soil) he remarked, " that the earth took pleasure in being cultivated by the hands of men, crowned with laurels and decorated

with triumphal honours."

If we pause for a moment, to glance at the civil institutions of this wonderful people, we discover how soon and how deeply it entered into their poliey not merely to promote, but to dignify agriculture and its professors. (6) When Cicero said, that "nothing in this world, was better, more useful, more agreeable, more worthy of a freeman, than agriculture;" (7) he pronounced, not merely his own opinion, but the public judgment of his age and nation. Were troops to be raised for the defence of the republic-the tribus rusticus was the pririleged nursery of the legions! (8) Did exigencies of state require a general or dictator—he was taken from the plough? Were his services rewardedthis was not done, with ribbands or gold, but by a donation of land. (9)

With such support from public opinion, it was not to be supposed, that the laws would be either adverse, or indifferent to this branch of industry, we accordingly find the utmost security given to the abors of the husbandman: (10) no legistative inerposition between the seller and buyer; neither orced sates-nor limitation of prices, and a sacredsess of boundaries never disturbed; (11) fairs and narkets multiplied and protected against invasion or interruption, (12) and highways leading to these every where established, and of a character to call orth benedictions and admiration.(1.)

Nor were these regulations confined to the proper

(1) The lupinus albus, of Linneus; "many other vegeables are used for this purpose particularly the bean, ut do not answer as well as the lupin when this is heatd in an oven and then buried, it forms the most powerful f all manures." T. C. L. Simonde. Tableau de L'agriulture Toscune

(6) Tanus and Numa were deified for services rendered agriculture.

(7) Cicero de officia L. 2.(8) This continued till the time of Marius.

(12) Assemblies of the people on days designated for irs, and on subjects other than those of trade, were not

(13) The Appian way, yet remains the wonder and reoach of modern times.

story of storie; what of her own policy was bandry, among the most distinguish the Her arts and arms were therefore constant compan-

SECTION 11.

Of the actual state of Agriculture in Europe.

This is very different in different states, and even in different parts of the same state: its greater or less degree of perfection, depending on causes physical or political, or both. Where a state, or part of a state, from soil, climate, manners, or geofrom the fishery or the chace, as in the more northern parts of Europe, agriculture will not succeed; when a state is from any cause both essentially maritime or manufacturing, as in England, or principally manufacturing as in Prussia: where public opinion has degraded manual labour, as in Spain, Portugal, and the Papal territory; or where laws villainize it, as in Russia, Prussia, Poland or Hungary, &c. &c. it is vain to expect pre-emment agriculture. These principles will receive illustra tion as we go along.

1. In the Campania of Rome, where in the time of Pliny were counted twenty-three cities, the traveller is now astonished and depressed at the silence and desolation that surround him. Even from Rome to Trescati, [four leagues of road the most frequented] we find only an arid plain, without trees without meadows, natural or artificial, and without villages, or other habitations of man! Yet is this wretchedness not the fault of soil or climate, which (with little alteration) (14) continue to be what they were in the days of Augustus. " Man is the only growth that dwindles here," and to his deficient or ill directed industry, are owing all the calamities of the scene [15] Instead of the hardy and masculine labors of the field, the successors of Cato harvested about the middle of June, and when the vases, hair powder and pomatums, artificial pearls, fiddle strings, embroidered gloves, and religious relics ! They are also great collectors of pictures, statues, and med ils-" dirty gods and coins," and find an ample reward in the ignorance and credulity of those who buy them.

2. How different from this picture is that of Tuscany! where the soil, though less tertile [16] is covered with grains, with vines and with cattle; and where a surface of 1200 square leagues, subsists a population of 950,000 inhabitants, of which 80,000 are agriculturists. It may amuse, if it does not instruct, the reader, to offer a few details of a hus-

(1-x) The climate of Italy is now warmer than it was in the Augustan age, which Buffon ascribes to the draining of great tracts of swampy land in Germany.
(15) "Un Romain meme le plus indigent rougiroit de

cultiver la terre." Bose.

good, she communicated to her neighbors; what of ent age. The plough of the north of carone, as were frequent; the lupin, in particular, was raised in their's was better, she adopted and practised herself. of this country, has the powers of a wedge, and acts perpendicularly: but that of Tuscany resembles a shovel, is eight or nine inches long and nearly as broad, and cuts the earth horizontally. This instrument is particularly adapted to the loose and friable texture of the soil. A second plough, of the same shape, but of smaller size, follows that already described, and with the aid of the hoe and the spade, throws the earth, already broken and pulverised, into four feet ridges, or beds, on which the crop is sown. The furrow ans ver a threefold purpose: they drain the beds of excessive moisture, ventilate the growing crops and supply paths for the weeders.

The rotation of crops, employs two periods of different length; the one of three, the other of five years. In the rotation of three years, the ground is sown five times, and in that of four years, seven times, as follows:

1st year, wheat, and after wheat lupins:

2.1 do wheat, and after wheat turnips:

3d do Indian corn or millet.

1st year, wheat, and after the wheat beans: 2d do

wheat, and after wheat lupins: 3d do wheat, and after wheat lupinella : [annual clover.]

4th do Indian corn or millet.

In the Syanese Maremna, where the lands want neither repose nor manure, the constant alternation is hemp and wheat and the produce of the latter often twenty-four bushels threshed for one sown.

It will be seen from this course of crops, that the principal object of l'uscan agriculture, is wheat; of which they have two species, the one bald, the other bearded; both larger than the corresponding species in other countries of Europe; covertible into excellent bread and pastes, and probably, out varieties of that Sicilian family, which Phny describes, as yielding "most flour and least bran, grain crop is secured, the ploughing for the second or forage crop, begins; which besides lupins, lopinella and beans, often consists of a mixture of lupins, turnips, and flax, the lupins ripen first and are gathered in autumn; the turnips are drawn in the winter, and the flax in the spring.

Besides the application of ordinary manures, the lupin is ploughed down. when in flower ; a practice that began with the Romans : Columella says,

of "all leguminous vegetables, the lupin is that which most merits attention, because it costs least, employs least time, and furnishes an excellent manure." The culture of this vegetable, is different, according to the purposes for which it is raised; if for grain the ground has two ploughings, and twenty-five pounds weight of seed to a square of a hundred toises; it for manure, one ploughing is sufficient. Like our buckwheat, its vegetation is quick and its growth rapid; whence the farther advantages of suppressing, and even of destroying the weeds that would have intested any other crop. In the neighborhood of Florence, they are in the practice of burning the soil; which they do by digging holes, fitting them with faggots and raising the earth into mounds over them. The faggots are then inflamed and burnt and with them, the incumpent earth, which is afterwards scattered, so as to give the whole field the same preparation. [ To be continued. ]

<sup>(10) &</sup>quot;Two thirds of Tuscany consists of mountains." Vol. viii. p 232. Geographic Mathematique et physique ; (9) As much as he could plough in a day.
(10) To cut or destroy in the night the crop of his eighbor, subjected the Roman to death.
(11) Terminus was among their gods.
(12) Assembling of the recoll of the recoll of the principal causes of her prosperity. "Leopold," says he "in selling the crown lands, studiously divided large tracts of rich but neglected land; into small properties-ties favorite plan of encouraging agriculture consisted, not in boards, societies and premiums, but in giving the laborer a security and interest in the soil-in multipiving small freeholds-in extending the livelli or life leases, &c. &c.

From the Practical American Gardner. [Published by Fielding Lucas.]

# For the mouth of June.

General Observations.

Sift some loose earth over the seedling firs and pines, as high as their seed leaves; trim up evergreens. Bud ding may now he practised on most kinds of trees and shrubs; but it would be much better to be done the latter end of July. Rub off all young shoots, proceeding from the stocks, which are independent of the grafts, or the inserted bud shoots.

Propagating Evergreens, &c. and Shrubs, by layers.

Most kinds of evergreens, and deciduous trees and year's shoots; being soft and tender, they will emit roots much more freely than the older wood, and several kinds that would not root for two years, if laid in spring or autumn, by this method, will be well rooted the autumn twelve montus after laying, and many kinds before the ensuing winter. Virgin's hower, Passion flowers, Trum pet-flowers, common Jasmine, and most of the climbing plants, root immediately; when laid in this month, water them occasionally in dry weather, and lay mulch around them.

On Insculation, or Budding.

Provide a neat sharp budding knife, with a flat thin haft of ivery, suitable to open the bark of the stock, for the ad mission of he bud, and also with a sufficiency of base bind round it when inserted.

In the first volume of the transactions of the London Horticultural Society, the following improved mode of inoculation is described by Mr. Knight: In the month of June, when the buds are in a proper state, the operation is performed, by employing two distinct ligatures, to hold the buds in their places; one bigature is first placed above the bark, the only office of which is to secure the off, but the others are suffered to remain. The passage of the sap upwards is in consequence much obstructed, and the inserted buds begin to vegetate strongly in July; when these afford shoots about four inches long, the upper ligatures are taken off, to permit the excess of sap to pass on; the word ripens well, and affords blossoms sometimes for the succeeding spring.

It will be perceived, that instead of the usual mode of budding, after the commencement of the antumnal flow of sap, and keeping the bud without shooting until the toflowing spring, when the top of the stock is cut off, this in proved mode gains a season, in point of maturity, if not of growth, and has the effect of ingrafting the preceding spring, in all cases where the bud sprouts in the proper time, to form a strong shoot capable of sustaining without injury, the frost of the ensuing winter.

Huacinths, Tulips, and early flowering Bulbs in general. Hyacin lis, tulips, and all it e different kinds of spring

flowering bulbs, such as fr tillarias, crown imperials, crocuses, snow drops, &c. whose leaves are now decayed, may be taken up and treated, as directed for last r. on'h.

Ranunculus and Anemonies.

When the flower stems and foliage of these are brown aul dry, vegetation has ceased, and it is then suitable to take up the roots, to prevent them from shooting afresh before the right time. When the roots are taken up, their stems, &c. should be cut off close, and they placed in a shady, airy situation, free from wet, to dry gradually; previous to their being perfectly dry, they must be cleaned and separated; as they become very bride, there is danger of breaking them improperly into small pieces; it is best to leave the roots as large as well may be, although they can sometimes he separated into many complete roots, and yet they are so closely connected, as to have the appearance of a sing'e root.

Hardy autumned flowering Bulbs.

The beginning or middle of this month, will still antumnal crocusses, and such other autumnal flowering bulbs, as have their leaves decayed. After drying them, and separating the off-sets, &c they may be planted again, or kept until July, and then planted. It is not once in three years.

Gurnsey and Belladonna Amaryllis.

The roots of the Guernsey and Belladonna amaryllises, if their leaves are quite decayed, may be taken up, their off-sets separated, and planted immediately length of the piping two or three inches: they are then m pots. They flower in October and November; they must be protected from the early frosts, and may be treated as green house plants.-

Cyclamen.

There are five kinds of cyclamens; I round leaved spring; 2 European; 3 Persian Spring; 4 Persian fall evelance; 5 ivy leaved eyelance. These are all cyclamen; 5 ivy leaved cyclamen. These are all gently watered, and left exposed to the air, but not to green-house plants. They should have as much air and the sun, until their leaves become perfectly dry; after light as well may be, yet preserved from frosts. The leaves being generally decayed about this time, the roots may be taken up, and replanted immediately into a comshrules, may now be propagated, by laying the present position of one half good loamy earth, one fourth sand, and one fourth light moory earth, well incorporated to radicles are established, and begin to act; for if fully gether, for some time before it is wanted.

The first and second sorts flower in January and February; the third in March or April; the fourth and fifth than the young plants, in their present weak state, in September and October. They continue a long time in bloom. The pots which contain the plants, must not be exposed to the sun or much moisture, during the sum- every kind succeed better, when thus treated, than

mant state, they would be injured thereby.

in spring, and covered about half an inch deep; they must always be protected from frosts and the summer string, or shreds of Russan mats, or woollen yarn, to when the leaves are decayed, they may be treated as the old roots, and in the third or fourth year, with proper management, they will flower

Carnations and Pinks.

Your superb carnations and pinks will now he coming into bloom; they should be protected by an awning, from severe rans, and the extreme heat of the sun.

The methods of continuing a succession of particular the bud asserted, and upon the transverse section through sorts which you already possess, are, 1. by piping, or laying; 2 by slips taken from them in spring or autumn. bul, is applied in the usual way; as soon as the buds it is a suitable time when the plants begin to show their have attached themselves, the lower ligatures are taken dowers, to select the kinds for seed; from among the breaking off the rest, that the whole strength of the followed. plant may go into the remaining pods.

Propogating Carnations, &c. by Laying and Piping.

1. Laging .- When carnations and pinks are propagated from the shoots, connected with the parent plant, naged as directed above. until after they have taken root, the operation is called This is to commence as soon as the plants are ın full bloom.

Previous to laying, provide a number of wooden pegs, with a hooked end, a sharp pen-knife, and some good

compost carth-

A suitable layer should have three, four, or five joints. close, to within two junts of the extremity of the layer, the leaves are to be shortened, so as to be left about

two mehes in length.

The surface of the pot is then to be cleared, well stirred about one inch deep, and afterwards filled up, nearly level, with light rich compost. After this, make the next the ground, in a sloping direction upwards, to be- the best. gin a quarter of an inch below the second or third clean lioint, from the top, and continue through the middle of that joint, and half an inch above it; the small part planting, may now he taken from places where they left bereath the joint, to be cut off close to the joint, but stand too close, and planted elsewhere, such as French not into it, horizontally, yet not so as to wound the outer part, which preserves the communication of the sap; the fibres proceed from the outer circle of the the joint) and to be kept there by one of the hooked pegs, before mentioned, which is to be forced into the newly rooted. soil, just behind the joint, where the incision was made, the layer is supported in such manner, that the sht may be kept a little open, a grain or two of wheat will answer this purpose. The joint from whence the fibres shoot, should be covered, with only an inch of two habits of growth, so as to allow them full space, tu swer to take up the yellow amaryllises, colchicums, au compost. In five or six weeks time, from being layed, attain the utmost perfection. they frequently have roots, sufficiently strong to be removed.

2. Piping .- Prepare a bed of fine light mould, water it moderately, and mark with a hand-glass, the place in of perennials, except such as are intended to save seed again, or aspectant, that when from clear off all dead leaves, weeds, &c the glass is set over them, it may not touch them.

The cuttings to be piped, as we tut oil, horizon. tally close under the second joint, the leaves also to be shortened, as for laying, which will leave the whole to be thrown into a basin of soft water for a few minutes. In this wet state, they are to be set in the earth about an inch and a half deep in the circle marked by the glass; when a sufficient number about two inches asunder, are set in the circle so as to admit the cover to be placed on, without touching them; they are then to be which the glass is placed over them carefully, and the bottom edges to be forced a little into the earth, to keep out the effects of the external air, and to preserve a moist atmosphere about the pipings, till their young exposed to the air before that period, it would carry off from the leaves, &c. a greater proportion of moisture, could imbibe, from the earth, and they must of course perish. This is the particular reason, why cuttings of mer months; for although they are at this time in a dor- when left exposed to the influence of the weather. They should have a small portion of the morning sun, but The best method of increasing these is from seed, shaded from it, when the heat increases, by placing which should be sown soon after they are ripe, or early mats, on a frame of hoops, about two feet above the glasses. The glasses should be taken off, for a half an hour at a time, early in the morning, or late in the aftersun. Any time in the summer of the second or third year, noon, to admit fresh air, to prevent the plants from becoming mouldy. When the fibres are formed, which the verdure of

the plants will evidence, more air should be occasionly admitted, and when they become tolerably well rooted, the glasses may be taken away; continue to water them frequently, but moderately, as they progress in

srowth.

Some sorts of carnations succeed much better by piping, than by laying, and make healthier plants; ex perience alone can enable the gardener to determine.

The directions given in article 2, will answer for the cuttings of delicate exoticks, as well as cuttings of all pinks, choose those which possess superior qualities, kinds of plants, which are so propagated; and when-and let but one or two flowers remain on each stalk, ever cuttings are planted, the above directions may be

All fibrous rooted plants may be propagated by cuttings, as the double scarlet-lychnis, double rocket, phloxes, with many others, by cuttings of the flower stalks, ma-

Planting Carnations and Pink Seedlings.

As it is supposed, that some seed from each of these flowers, are sown every year, to procure new varieties; therefore those sown early in spring, may now be planted into nursery beds, in rows, ten or twelve inches asunder, there to remain until they show their flowers, when the single, and less valuable, may be pulled out, the lower leaves next the root are all to be stripped off the best marked for laying or piping, and the others planted out.

Propagating double Sucet Williams.

The fine kinds of these, may now be propagated, either by slips, or layers. But as they are so easily raised from seeds, of which they produce abundance, in the middle states, it is recommended, to sow the seeds meision, by introducing the knife, on that side the layer for new varieties, and only slip, lay, or part the roots of

Transplanting annuals.

The different kinds of annuals, which will bear trans-Imarigold, China astres, China pinks, China holyhocks, cocks-combs, chrysauthemums, balsams, amaranthus of var.ous sorts, gompl.rena globosa, and many other kinds, The layer is to be gently pressed down to the plant them in moist or cloudy weather, taking up as much earth, (he very cautious neither to break or crack it at learth as possible about their roots, and give them shade, and frequent waterings, until they evidence that they are

Thuning and Supporting Flowering Plants.

Annual flowering plants, the seeds of which have been sown in patches, and have grown too thick, must be thinned, to proper distances, according to their respec-

Support the various climbing plants, as before direct.

Cut off close to the ground, all decaying flower stems

Trim, dress and tie up all plants which required it.

Fransplanting Seedling Perennials and Biennia's.

Transplant from the seed-beds, the early sown pe rennial and biennial seedling plants, that are grown to a sufficient size; such as sweet-williams, sweet-scabious, rose campion, Canterbury bells, and monk's-hood; soap-wort, asters and rhexias; corepsis, dracocephalums, &c.

Plant these out in suitable beds, of good earth, by line, six inches every way, water them immediately and repeat it frequently, giving them occasional shade from the hot sun, until they have taken root. They are to remain in these beds, until antumn, or spring, and then to be planted out finally, where they are to remain.

Stock Gilliforers and Wall Flowers.

Stock gillsflowers and wall flowers are not sufficiently hardy, to hear the winter frosts of the eastern or middle states; therefore it will be necessary, to plant the seedlings of these kinds, in some convenient place, where a garden frame may be set over them, in winter, on which to lay boards or any slight covering for their protection, as directed in November.

Additional Remarks.

The flower horders, beds, &c. and all other ornamental size, in those places.

Occasional waterings must be given, to all your late

nursery beds.

to these to preserve them through the season.

General Observations.

The plants being now fully exposed to the open air, will require a constant supply of water. In very hot any thing put in it, which would always injure the plants.

If moss or mowings of short grass be spread on the surface of the earth, in the tubs and pots, it will materially protect the plants from the sun and drying air.

Myrtles or other hard wooded plants, which appear in them out of their pots with all the earth to their roots. and setting them in the open borders, till September, housed.

Propagating the Plants.

Geraniums, hydrangeans, jasmines, myrtles, China, and the present year's wood. Dress them by taking off the under leaves; plant them three or four inches deep into beds of light rich earth, where they can be occasion ally shaded and watered till rooted. The covering of them with bell glasses will greatly facilitate their rooting but instead of being made with hardy, industrious and growth, which is the most suitable way of effecting husbandmen, accustomed to labor, the only people it, particularly for woody plants, and such as are not such fit for such an enterprise, it was with families of

The succulent plants are to be propagated agreeably to former directions.

Transplant Seedling Exoticks.

exoticks, which have been raised from seed this year; give them shade and water.

Budding.

Any time this month, bad oranges, lemons, &c. The buds are to be taken from the shoots produced last autumn, which will now take freely, and handsome shoots building an orphan-house there, in which they might establishment of a college. will be formed the present year. For the method of budding, see Nursery, June.

C. pe and other Green House Bullet.

The cape builts and tuberous rooted plants, whose would materially weaken them.

## Miscellaneous Selections.

#### MR. WHITEFIELD,

of the celebrated Mr. WHITEFIELD, by Doct. FRANKLIN.

In 1773, arrived among us, from Ireland, the reverent Mr. Whitefield, who had made himself remarkable there as an itinerant preacher. He was, at first, permitted to preach in some of our churchles ; but the clergy taking a dislike to him, soon refused him their pulpits, and he was obliged to preach in the fields. The inultitude of all sects and denominations that attended his sermons, were enormous and it was a matter of speculation to me, (who was compartments, must now be kept remarkably clean and one of the number) to observe the extraordinary neat, and no weeds suffered to grow to any considerable influence of his oratory on his hearers, and how much they admired & respected him, not with standplanted shrubs and flowers, particularly to the annual, perennial and biennial flower plants, newly planted into they were naturally half beasts and half devils.— It was wonderful to see the change soon made in the Your entire stock of plants, in pots and boxes, seedlings manners of our inhabitants. From being thoughtless and others, must be watered as often as the earth about or indifferent about religion, it seemed as if all them becomes dry, and there must be due attention given the world were growing religious, so that one could not walk through the town in an evening, without hearing psalms sung in different families of every street. And it being found inconvenient to assemweather, those in small pots should be watered both ble in the open air, subject to its inelemencies, the morning and evening, using clean soft water, without building of a house to meet in, was no sooner proposed, and persons appointed to receive contributions, but sufficient sums were soon received to pro- a perfectly honest in in; and methinks, my testimony cure the ground, and erect the building, which was one hundred feet long, and seventy broad; and the work was carried on with such spirit, as to be fina declining state, may be greatly benefitted, by turning ished in a much shorter time than could have been expected. Both house and ground were vested in when they are to be taken up, with balls of earth trustees, expressly for the use of any preacher, of around them, and re-planted in suitable sized pots or any religious persuasion, who might desire to say tubs; after which they are to be placed in the shade till something to the people at Philadelphia. The design in building not being to accommodate any particular sect, but the inhabitants in general: so that Otaheite roses, and almost every other kind of shrubby even if the Mufti of Constantinople, were to send and under shruboy plants, may be propagated towards the a missionary to preach Mahomedanism to us, he middle or latter end of the month, by slips or cuttings of would find a pulpit at his service.

Mr. Whitefield, on leaving us, went preaching all the way through the colonies to Georgia. The settlement of that province had lately been begun, broken shop keepers, and other insolvent debtors: many of indolent and idle habits, taken out of 'the jails, who being set down in the woods, unqualified Now transplant singly, into sm. Il pots, any seedling for clearing land, and unable to endure the hardships of a new settlement, perished in numbers. leaving many helpless children unprovided for. The sight of their miserable situation, inspired the bese supported and educated. Returning northward. ne preached up this charity, and made large collec-

project, rejected my counsel, and I therefore refused to contribute. I happened soon after, to attend one of his sermons, in the course of which I perserved he intended to finish with a collection, and I silently resolved he should get nothing from me: I had in my pocket, a handful of copper money; three Account of the arrival, character and preaching, or four silver dollars, and five pistoles in gold: as he proceeded, I began to soften, and concluded to give the copper. Another stroke of his oratory made me ashamed of that, and determined me to give the silver: and he finished so admirably, that I emptied my pocket wholly, into the collector's dish, gold and all ! At this sermon, there was also one of our club, who being of my sentiments respecting the building in Georgia, and suspecting a collection might be intended, had, by precaution, emptied his pockets before he came from home; towards the conclusion of the discourse however, he felt a strong inclination to give, and applied to a neighbour, who stood near him, to lend him some money for the purpose. The request was fortunately made to perhaps the only man in the company, who had the firmness not to be affected by the preacher. His answer was, " At any other time, friend Hopkinson, I would lend to thee freely; but not now, for thee seems to me to be out of thy right senses."

> Some of Mr. Whitefield's enemies affected to suppose, that he would apply these collections to his own private emolument: but I, who was intimately acquainted with him, (being employed in printing his sermons, journals, &c.) never had the least suspicion of his integrity; but am, to this day, decidedly of opinion, that he was, in all his conduct, in his favor, ought to have the more weight, as we had no religious connexion. He used indeed sometimes to pray for my conversion, but never had the satisfaction of believing that his prayers were heard. Ours was a mere civil friendship, sincere on both sides, and lasted to his death. The following instance will show the terms on which we stood .--Upon one of his arrivals from England, at Biston, he wrote to me that he should come soon to Philadelphia, but know not where he could lodge when there, as he understood his old friend and host, Mr. Benezet, was removed to Germantown. My answer was, you know my house: if you can make shift with its seanty accommodations, you will be most heartily welcome. He replied, that if I made that kind offer for Christ's sake, I should not miss of a reward. And I returned, "don't let me be mistaken: it was not for Christ's sake, but for your sa.e." One of our common acquaintance jocosely remarked, that knowing at to be the custom of the saints, when they received any favor, to shift the parthen of the obligation from oil their own shoulders, and place it in heaven; I had contrived to fix. it on earth.

The last time I saw Mr. Whitfield, was in London, when he consulted me about his orphan-house nevolent heart of Mr. Whitefield, with the idea of concern, and his purpose of appropriating it to the

He had a loud and clear voice, and articulate ? tions: for his eloquence had a wonderful power over his words so perfectly, that he might be heard and leaves are now occayed, such as antholizas, gladioluses, the hearts and purses of his hearers, of which I my understood at a great distance; especially as his auixias, moreas, ornithagolums, &c. may be taken up, and self was an instance. I did not disapprove of the ditories observed the most perfect silence. He transplanted immediately, or they may be wrapped in design, but as Georgia was then destitute of mal preached, one evening, Irom the top of the Courtdry moss; and kept till September; but the cyclamens, terials and workmen, and it was proposed to send house steps, which are in the middle of Market &c. should be planted minediately after being taken them from Philadelphia, at a great expence, 1 street, and on the west side of second street, which up and cleaned, and all the arturnal flowering bulbs, as their from Philadelphia, at a great expense, listiect, and on the west side of Second street, which the thursely and Berksdonna amyllis; to keep these last out of the ground longer than the middle of July, house at Philadelphia, and brought the children to with his hearers to a considerable distance; being it. This I advised, but he was resolute in his first among the mindmost in Market street, I had the care

riosity to learn how far it could be heard, by retiring backwards down the street towards the riverand I found his voice distinct till I came near Front street, when some noise in that street obscured it Imagining then a semicircle, of which my distance should be the radius, and that it was filled with auditors, to each of whom I allowed two square feet; I computed that he might well be heard by more than thirty thousand. This reconciled me to the newspaper accounts of his having preached to \$5,000 people in the fields, and to the histories of generals haranguing whole armies, of which I had sometimes doubted.

By hearing him often, I came to distinguish easily between sermons newly composed, and those which he had often preached in the course of his travels. His delivery of the latter was so improved by frequent repetition, that every accent, every emphasis, every modulation of vuice, was so perfectly well-turned and well-placed, that without being interested in the subject, one could not help being pleased with the discourse; a pleasure of much the same kind with that received from an excellent piece of music. This is an advantage tinerant preachers have over those who are stationary, as the latter cannot well improve their delivery of a sermon by so many rehearsals. His writing and printing, from time to time, gave great advantage to his enemies; unguarded expressions, and even erroneous opinions delivered in preaching, might have been afterwards explained or qualified, by supposing others that might have accompanied them; or they might have been denied; but litera scripta manel; critics attacken his writings most violently, and with so much appearance of reason, as to diminish the number of his votaries, and prevent their increase. So that I am satisfied that if he had never written any thing. he would have left behind him a much more name rous and important sect; and his reputation might. in that case have been still growing, even after his death; as there being nothing of his writing on which to found a censure, and give him a luw character, his proselytes would be left at liberty to at tribute to him as great a variety of excellencies, as their enthusiastic admiration imight wish him to have possessed.

#### PARMER. E E E

BALIIMORE, P 2001A 2, JUNE 4, 1519.

#### EDITORIAL NOTICES,

In the last number, some material errors occurred, which the reader is requested to correct. In page 63, hot muck, should be substituted for "not much," and in the same page and column, speaking of the opinion of Col. Taylor, of Virginia, and of Judge Peters. of Pennsylvania, as to the food of plants, we were made to say, " for it seems that he and Judge Peters argue better on these points," instead of agree better. We should not troubly ourselves or our readers, to have noticed this literal error, but that we would not even seem to have spoken thus irreverently of two gentlemen, so highly distinguished in the various walks of learning and public usefulness; whose services in the cause of the plough, have done more real benefit to the country, than one half the politicians in it Would to God, that every one, in his sphere, would do his duty to the commonwealth with the same zeal, the same disinterestedness, the same intelligence and the same success, that they have, in their endeavours to improve our agricultural practices and prospects. In a letter from a gentlemen manifestly one of taste and science, which we have just opened, dated Gloucester county, Va. May 25d, 1819, he pays the following handson e and deserved compliment Taylor's 'Arator.' has imparted a new complexion to the 17th instant.

gricultural face of Varginia, below the mountains his low r section of the state, in which I reside, his litte volume may be called the vade-mecum of almost every cultivator of the soil, as it is known to be the genuine off pring of sound practical information and experience to this little work we are certainly under the highest obligations; particularly as its publication has given life and activity to agricultural specities, which probably never would have been called into existence, or at leas would have remained for a long time spiritless and dormant. Nor does the apparent ignorance of vegetable Phisiology, which the author betrays when he attempts to theorize on the pabulum of plants, detract, in the smallest degree, from the merit of the performance, in a practical point of view."

In the last number, we made an extract from the com munication of Dr. Joseph E. Meuse, to the agriculturasociety, wherein, speaking of the air, he is made to say that it does not, "in its material constitution," instead of, "in its natural constitution, contain most of the principles of vegetation," &c. &c. &c. This error was committed in the original publication of his learned remarks, and has crept through all the copies.

In the next number we expect to publish some very interesting and valuable observations, made by Thomas Griffin, Esq. o. Yorktown, Virginia, on the use of the s aweed, called, in this state, sea ore, and properly termed kelp, as a manure. For these communications a great number of farmers residing on the chesapeake and the shores of its tributary rivers, will feel themselves, as we do, under great obligations to the author. We here tender him our hest acknowledgements in behalf of our readers, for the prompt politeness and satisfactory manner with which he has replied to our enquiries on the subject. It is in this way that gentlemen of experienc most suitably manifest their gratitude to Providence, for the superior acquirements and advantages it has allotted them. Let us hope that it will become more generally the fashion for individuals to contribute their quotas of experience to the general stock, and so let good offices go round, as the sage Franklin observed, for mankind are all of a family.

Every thing from the pen of " Agricultor" is useful and instructing : we only wish that we could have the benefit of hearing from him more frequently, and that he would add to the intrinsic value of all he writes, the weight of his own respectable signature.

We are happy in having it in our power to announce a large and very valuable accession of French works, of modern date, to our agricultural library reader reflects on the progress that agriculture, as well as other sciences have made in France, of lat years, the value of such an acquisition, in the prosecution of our lapors, in the mcreased utility with which it ought to confer on our paper may be easily imagined.

The translation of a note on the "Ble de mai," (Wheat of May) offered by Miss Bland, is particularly acceptable and given to our readers with that pl asure we shall ex perience in promulgating every thing which may tend to increase our number and our knowledge, of the cultivation of artificial grasses, in which we are so lamentably deficient. The grass, or grain, described in this translation differs, as it appears to us, from that sent from France by General Armstrone, as it does from every other, of which we have seen any account. Its early and than any other in sandy and gravelly soil: rapid growth, its excellence as food for mileb cows, and its adaptation to sandy or gravelly land, makes it, in a easure, a desideratum, particularly in countries similar to the sca-board of Virginia and North Carolina. We have taken steps to procure some of it as soon as practicable; and lest our attempt should fail, hope that gentlemen who enjoy facilities of communication with that country, will unite with us in the endeavour to get some.
The severest half storm ever known in that part of the

country, was experienced in Milledgeville, (Georgia ) and its vicinity, on the 10th inst. It lasted for 15 minutes, and made great havee among the window glass-It was also very destructive to crops of small grain. Some of the stones were nearly six inches in circumference-

A most splendid hall was given in honour of the Presito the talents and public spirit of Co. Taylor. . . (colone! dent of the Upited States, at Augusta, (Georgia) on the

In | Translated from the Preuch, and communicated for the American Farmer by Miss S. B F. BLAND

A NOTE ON A SPECIES OF GRAIN OF EGYPT, CALLED WHEAT OF MAY.

BY MR. BOTTIM.

There has been cultivated, for some years past, in Belgium, a peculiar kind of wheat, originally from Egypt, the vegetation of which is so rapid, that it may be gathered in three months after being sown. Every one must be sensible of the importance such a culture may be of in disastrous years; and we, therefore, give here with pleasure the substance of a communication inserted in the Physico-economic Library, a pamphiet of May, 1817, digested by Mr. Bottin, from documents that he obtained or Belgian farmers, who had applied themselves to this culture This wheat was brought from Egypt by a Belgian soldier, who was hi the French expedition to that country. He was told that it yielded in that country, two crops a year. He gave a small quantity of it to one of his friends, who sowed it in his garden, where it succeeded perfectly well. This grain was soon transplanted from the nursery to the fields, and was naturalized by extensive experiments, made during seven years, on an extent of more than 150 kilometres, (or . la Ir. 7p. 77yd. 8 s. f.) in Brabant Flanders, and Han-

Mr. I Thomas, of Gosselius, near Waterloo, was the first who undertook to extend its cultivation. He got from the person who had tried an experiment with it in his garden, nearly seven hectogrammes, or a pound and half,) he sowed a bed of it towards the middle of April, 1812. He was recommended to sow it very thin. When it began to grow, the young plants appeared so sparse that he considered the experiment as lost, and scattered carrot seed over the bed where he had sown it; but what was his surprise, when afterwards he saw spring forth as many as thirty cars from the same stalk, and his little field entirely covered with wheat! His surprize was yet ugmented, when, a hundred days after it was sown, he saw it in a state of maturity. The crop produced him nearly 3.9 hectogrammes (or 74 lbs. 6 oz.)

In 1813 Mr Thomas gathered a great deal of this gram; in 1814, his crap was 600 kilogrammes, (or about 1,230 lbs)—he distributed a part of it to many farmes, who made a great quantity of it particularly Mr. Art, of Geniappes In 1815, the field Mr. Thomas had sown with Egyptian wheat, was laid waste by the soldiery. and he gathered from it no more than 3:0 kilogranimes (or about 1:0 lbs) of grain; but in 1816, his success was such that his crop of Egyptian wheat was a third more than the best common wheat of that year, and as

This circumstance, of the great abundance of the Wheat of May, the name by which it is generally known in Beigium, compared to that of the autumnal wheat, appears very remarkable, especially in a year, when bad seasons were so destructive to the crops of grain in general; so much so that 150 kilometres (or more than 93 m.) from there to Zohnebeke, near Ypres, in the same year of 1816, Mr. Delevaleye obtained from a conaderable sowing, made on the 23d of April in heath land, that had only been three years in cultivation, and of bad soil, deemed unfit even for the production of wood, a Wheat of May, heavier than the best wheat that he had gathered in the same year; and of which, bread of an excellent quality has been made. Thus, the opinion of these two farmers. Messrs. Thomas and Delevaleye, is that the Wheat of May will grow better

M. Bottin adds, that bread of the flour of the Wheat of May is of a kind between that of autumnal wheat and of rye; that it is good well tasted, and very wholesome; it is of a browner color than common wheat bread, but less so than that of 'rye lis crust is very cohesive; it is more easy to digest than rye bread, especially when it is sufficiently sifted: its fine bolted flour differs in no-

thing from that of wheat,

It has been ascertained that the Wheat of May afforded much alcohol, by distillation, and that it would be no less profit, ble to the brewer.

The Wheat of May may be compared, with regard to culture, its quality, and its product, to the three months grain the tremenon and dimenon spoken of by Theophrastus and some other ancient Greek authors, to the three months grain of Pliny, to the setanies of Dioscorredes and of Galen; it is the same, perhaps, as the ertmems of Saternum, of Lucana, and of Calabria; the sand hills of tobacco, growing finely, destroyed, in same as tuminia of Sicily, the grano mezzutica of Naples, few days after their appearance, at least one half of them

and the grano marzalo of Tuscany.

is easily affected by frost. In 1814, at Gosselies, its tops were nipped one night in the latter end of April; notwithstanding this accident, the harvest was abundant and sustains itself better than any other grain; the heads are bearded, and the beard adheres to the straw, as a autumnal wheat, and not to the grain, as that of ripe bar ley Mr. Thomas observed in 1813 and 1814, that as it ripened, the heards fall from a great number of ears, and that then the ears of the Wheat of Vay, much resembled those of the common wheat. In 1816, on the contrary, al the heads preserved their beards which Mr Thomas be lieves may be attributed to the coolness and great humadity of the season.

The grain of the Wheat of May is red, of the same form, but somewhat smaller, than that of winter wheat also, its stalk is not quite so high, and is hollow like that of the latter Horses eat this straw as readily, and perhaps more willingly, then the common kind, because it is more tender

Mr. Thomas cut it three times, from mouth to month from the same field, to give it green to his cows, and he obtained from them, whilst they fed ou it, excellent milk, and in great quantity. He thinks, but without having made the experiment, that it might be given green to horses, with qual solvantage

NOVEL INSECT

To the Editor of the American Farmer Cambrings E. 5 Md. May 9 h, 1819.

STR-An insect of a very peculiar kind, has appear. ed among my tobacco, this season, and has been onfinitely more injurious to it, than the cut-worm, which last feeds only by night, and in cloudy weather; whereas, the carner by day, as well as night, and in all the varieties of weather, is equally volucious. I have never before seen a similar insect, nor can I learn that such an en my was ever enrolled among the host that infests

I will attempt a concise description of this insect so singular, and which threatens to be fatal to one of the most profitable crops of our state, that the inquiry and attention of farmers may be early drawn to an object, which may, at a future day, seriously command their

consideration

It is a winged insect, of the colyopterous order, a bout one half inch in length, of a concial figure; a long and sharp maxillæ or mouth form the apex of the cone; its abdomen, a large and very obtuse base, and constituting about two thirds of the whole length of the insect; its trunk, connecting the two extremities, converges in a regular slope, so as to form a perfect cone of the whole insect; its palpit are numerous and brushlike; two long antennæ; tits six legs of equal length : color of the wings and trunk, light and dark grey spots or blotches, the rest black.

This insect is, in point of habit, an anomaly in the insect tribe. The state in which that whole class of animals annoy vegetation, is that of the larvæ, or catterpillar; in the winged, or parent state, they have been deemed, I think, universally harmless, and I am pretty certain of the fact, in regard to all the variety of plants that constitute the former's crops; but this insect, winged and fully matured, has, in a lot of thirty thou-NOTES TO THE ABOVE

\* Calyoptera. To most of the individuals of this exten-

sive order, the term Beetle is applied in common language; though, scientifically, it is confined to the first genus. All the species are furnished with membranous wings, cased in a pair of strong horney coverings, or shells The order consists of thirty-two genera. See the Tourist's Companion, a new and valuable English work † Palpi, or Feelers. - These are another peculiarity at. tached to insects; they are mostly in pairs, in sona four, and in others six; they are short jointed and moveable, but distitute of the coat, or covering, ohservable in the Antenna; they are situated on each side of the mouth.

# .Anteuna - Horns, situated on the fore part of the heads of insects, jointed and moveable in every part, in which particular they differ from the horns of other animals.

What kind of farvæ this insect may produce, an-It has the appearance in its growth of barley, and it what they may feed upon, in that state, I know not as vet; I have several of them in a transparent bottle, which I discover to feed freely upon young tobacco plants, and reject various other tender leaves, which I The stalk, as it approaches maturity has more strength, have given them. They will probably exhibit their progeny, with all their metamorphoses and transformaons, which may afford some useful instruction, in respect to their history, habitudes, &c. by which means only, may we ever hope to counteract the destructive operations of the numerous insect class of animals, so stensively, and arjuriously experienced by the farmer.

If, sir, you believe that a publication of the fact, may have a useful tendency, you have my permission to make τ. Το be early apprised of the approach of an enemy, universally desirable. AGRICULTOR

APTURE OF PORTO BELLO AND DEFEAT OF McGREI OR.

Capt Fleetwood of the schooner Sam, arrived here on Tuesday, in '5 days from Porto Bello, reports th General McGregor made his appearance off the harhor of Porto Bello on the 7th April On the 8th he landed his forces, amounting to upwards of one thousand mon. and on the day following entered and took possession of the place. He remained in possession (wenty ondays without succeeding in gaining any of the inhabi tents over to his standard. The depretations and robberies of his party on the private property, compelled the inh dituats to abandon the r houses and fly to the mountuns for refuge At the last of April, general flore (Royalist) enered Porto Bello at six in the morning and surprised McGregor and his followers, who were McGregor and five or six of his men escaped

high and swimming on board of one of his vessels. Five hundred prisoners have been sent to Parama There were sixty men killed and forty wounded, the greatest part of whom were officers. Stragglers were daily brought in from the neighboring mountains Royalists lost 2 men killed an I wannded. American.

with difficulty by leaping from a window twenty feet

FROM ANGOSTURA.

New-York, May 30 - A gentleman direct from Angostura, which he left on the 3d instant, informs that I Bolivar was on the right bank of the Arauca with about 4,000 men, including a division of 900 Englishmen -Morillo was on the opposite side with 6,000 A brilliant affair took place on the 11th of April between the cavalry of the patriot Gen. Pacz, and a part of Morillo's force, in which the royalists lost 500 men.

MASSACUSETTS' ELECTION

We understand the whole number of legal votes for Governor amounts to 79,885-necessary to a choice 39, 43. His excellency John Brooks has 42,575 Hon. BENJ. W. CROWNINSHIELD, 35,281-Scattering, 1730-Majority for Gov. Brooks, 2932.

For lieut Governor His Honor WILLIAM PHILLIPS and 42.781; Hon Bays Austin, 36.232; Scattering 296.

Lieut, Col. Towson, of the U > Light Artiflery, commanding the garrisons in Newport harbor, has resigned his commission in the army. The Nowport Mercury observes, "the resignation of this gallant soldier de-The Newport Mercury prives our country of the services of one of its most distinguished officers. Col Towson will carry with him the respect and attachment of all classes of our cresent prices of Contary produce, in the Billi-citizens."- Bos. pap

Contemplated Improvements in Boston.

A new episcopal Church is to be erected in Commonstreet, which will probably be commenced this month

Another, for the Rev Mr Sabine, is to be erected in Rowe's pasture.

Also, is to be erected, in that place, a convent as an ppendage to the Catholic Church; and a very commodious Amphitheatre, or summer Theatre in Washington

Capt Biddle, of the United States' Navy, in a letter to Commodore Buinbridge, has given a very satisfactory : c. count of the affair between himself and Lord Cochran, relative to which a garbled correspondence appeared

sometime since in the public parties

Capt. Wrighf, of the case sharp, has been dismisted from service, for smuggling 53 yards of crape, &c.

HON. TIMOTHY PICKERING.

With pleasure, says the Essex Register have we ridden on the southern Banks of the Merrimac, and have heard the European, proud of their soil and its cultivation say, these lands look like the villages of my own country.

We should not overlook the good services of the President of the Essex Agricultural Society, (Hon. functhy Pickering,) who has suffered no one to exceed him in zeal and personal services in this kind deogn, and now has imitated the virtue of the heroic sages a giving to agriculture the hours of his repose from public cares, that when he retires he may leave a blessing on the earth he has inhabited.

THE POTATOE.

It has been often mad a question, what was the native country of the potatoe? and it is easy for us to participate in the curiosity respecting the original of a root that makes so important an article on a Yankee table.— In the Delaware Watchman, the following account has een given as settling the question. By the way, when Jost. Bankow so sweetly sung the charms of Hasty Pudding, we could wish he had also introduced by its side the lovely Potatoe,

"Its cheeks all glowing with a tempting red."

Interesting Discovery - Dr. BALDWIN, late Surgeon of the frigate Congress, has decided the controversy resp cting the habitat of the Potatoe, Solanum Tuberosum. le found this vegetable growing abundantly on the worth side of the Rio de la Plata; in wild uncultivated situations, unknown to the inhabitants who do not even ultivate this valuable plant, now so generally attended to in most parts of the civilized world.

It is found growing among the rocks on Monte Video. and in the vicinities of Waldenodo, in the sand hills on the river shore, as well as in low moist situations, near streams of water. The largest tubers were not more

than half an inch in diameter.

If In the "Historical Remembrancer," we find the following record on the subject-" Pot toes brought to England, from America by Hawkins. 1563; introduced into Ireland, by Sir Walter Raleigh, 15 6; not known in Flanders until 17:0. They were natives of a province of Quito, and are named from the village of Potate, in the assiente of . lambato, in that kingdom -B or C ntinel.

We observe by an activities at that a couple of Boston Druggists have prepared what they denominate Soda Powders enough is sold for 50 cents to make one dozen tumblers of Soda Water, containing a profusion of fixed air.

At a saw mill one mile east of Chadd's ford, across the Brandywine, Del. and about the middle of last March, as a man was sawing a large poplar log. he was surprised in hearing the saw strike against something very unusual, that obliged him to stop the mill; upon examination, it proved to be a common ball, of four pounds weight, completely grown over, so as to leave no mark. It app ars evident, from every circumstance, that this ball was discharged from the American battery on the day of the battle of Brandywine, Sept. 12, 1777, as the tree in which it was found grew just back of the ground, where the British soldiers were encamped. From that time to the present is more than forty-one years, that it has lain perfectly harmless, though we cannot say what damage it may have done in its passage from the factor the tree. L'Hame Record

more Ma ket.

The same reasons which induced us last week to omit the current prices of tobacco, still exist, and prevent our attempting to give a regular fair quotation; we were advised to say, for St. Mary's tobacco, from 6 to \$3; Benedict, 8 to 10; and Upper Patuxent, 10 and \$12; but we learn within the week, that > 50 and \$1 > 50, have been refused for twenty hogsheads, Mr. John Santhorn's, from Chaptico, of fine quality At the same time, we know of a small parcel of St. Mary's, having sol for \$7; so that we must leave the planter to his was calculations and patience.

Wheat, red, from 110 to S1 13

white. I 15 to S1.0 Rye, 75 to 30 cents

Corn, 44 to 18 do

Hay 18 to \$19; Straw, 13 to \$14

# PRICES CURRENT

AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Revised and Corrected	ever	y 1 nur	зииу.
	ER ].	(ETAIL I	RICES
BEEF, Northern mess	bl.	17	
No 1		15 13 50	
Bacon, So 2	b.	16	
Butter, Ferkin - "		15	20
Coffee, first quality,		38	0.0
second do		27	28
Cotton, Twist, No. 5,	Í	45	
No. 6 a 10,		46	50
No. 11 a 20,	-	53 80	80 1 20
No. 20 a 30, -		33	1 20
Chocolate, No. 1, No. 2,	ĺ	28	
No. 3,	. !	25	0.1
Canales, montas	xod	20 18	29 19
dipt,	- 1		caree
Cheese, American,	lb.	10	15
Feathers,	-41	8 50	6.5
	qtl. bbl.		retail
mackarel, No. 1 a 3		9	12
shad, trimmed, -		7 75	7 8
Flour, superfine, -	bbl.	6 50 5 50	7 6
fine, middlings,	001.	4 59	5
rye,		4 a	4 25
Flaxseed, rough,		none.	
Cicanouj	bush lb.	do do	
Flax,		12	13
Hogs lard,		12	1:
Leather, soal,	en l	62 1-2	31
Molasses, Havana, New Orleans, -	gal.	75	
sugar house, -		1	
Oil, spermaceti,	gal.	1 50 18 a	20
POHK, mess or 1st quality, -	bbl.	18 a	17
prime 2d do cargo 3d do		14 a	15
Plasier,	ton	5	
ground	bbl. Ib.	1 75	
Rice, Spirits, Brandy, French, 4th proof		2	3
peach, 4th proof		1 25	1 5
apple, 1st proof Gin. Holland, 1st proof		75 1 50	İ
Gin, Holland, 1st proof do. 4th proof			
do. N. England	l	50	6
Rum, Jamaica, -		1 50	2
American, 1st proof Whiskey, 1st proof		50	62 1-
cap, American, white,	lb.	18	1
do. brown, -		19	
Sugars, Havana, white,		14 50	1
hrown, loaf,	1	25	2
lump,	lb.	20	
Salt, St. Ubes,	bu.	70	
Liverpool, ground, Shot, all sizes,	lb.	12	
TOBACCO, Virginia fat,	ewt		}
do, middlings,		6 50	5 5
Rappahannock, Kentucky, -	1	6 50	7 5
small twist, manufactured,	Jh.	25	1 .
pound do		50 63	
TEAS, Eohea, Souchong,	lb.	75	
Hyson Skin		75	a 1
Young Hyson,		1 23	
Imperial,		1 73	
WOOL, Merino, clean, unwashed, -		40	
crossed, clean,		6.	
unwashed, - common country, elean,		3	
common country, elean, unwashe	d	2	5
skinner's,	• •	7 3	31

## POETRY.

## SPECIMEN OF GERMAN THEATRICALS.

The following burlesque of the German pantomimical tragi-comedy, is extracted from "The Rovers," a mock tragedy, published in a periodical print, in the year

Scene, a Prison. Song, by Rogero in chains. Whene'er with haggard eyes I view The dungeon that I'm rotting in, I think of those companions true, Who studied with me at the U-

niversity of Gottingen. niversity of Gottingen. Weeps and pulls out a blue handkerchief with which he wipes his eyes, gazing tenderly at it, he proceeds-Sweet 'kerchief, checked with heavenly blue, Which once my love sat knotting in!

Alas! Matilda, then was true, At least I thought so at the U-

niversity of Gottingen.

(At the conclusion of this, Rogero clanks his chains in concert. )

Barbs! barbs! alas! how swift ye flew, Her neat post-wagon trotting in! Ye bore Matilda from my view,

Forlorn Hanguished at the University of Gottingen

This faded form! this pallid hue! This blood my veins is clotting in; My years are many—they were few,

When first I enter'd at the U-

There first for thee my passion grew, Sweet, Sweet Matilda Pottingen! Thou wast the daughter of my tu-

tor, law professor of the U-

Sun, n con, and thou, vain world, adieu ! That kings and priests are plotting in;

Here doom'd to starve on water-gru-

cl, never shall I see the Umiversity of Gottingen.

niversity of Gottingen.
(During the last stanza, Rogero dashes his head repeatedly against the walls of his prison, and finally so hard as to pro-duce a visible contision. He then throws himself on the floor duce a visible contusion. in an agony The curtain drops; the music continues to plan tel it is wholly fillen )

FROM THE AMERICAN CRITICAL REVIEW, OF JANUARY.

## NEW-YORK AND ST. PETERSBURGH.

DURING the last summer, two American Ploughs, of an admirable plan and exquisite workmanship, were forwarded to the Czar of the Russias; one as a model for They were conveyed, by permission, in the public ship, commanded by Commodore Macdonough, that carried the Minister, G. II. Campbell, to Muscovy. A note of address and explanation was elegantly engrossed, and tied to the handle of one of the ploughs, before it was nailed up in the box. We offer to our readers a copy of that document, which so nearly resembles a state paper, that it cannot fail to interest, not only our patrons, but indeed all the lovers of their country's fame and honor.

Samuel L Mitchell, a Citizen of the United States of America, to Alexander, Autocrat of all the Russias.

May it please the Emperor,

I have been induced to offer, for the acceptance of his imperial majesty, a Plough, which is considered generally in these parts of America, superior to any instrument of the kind that has ever been invented.

Previous to taking this step, I consulted my friend, the honorable Andrew Daschkoff, his majesty's minister plenipotentiary in the United States, who feels a lively interest in every improvement that can be useful to his country. As the time of his departure was uncertain, he recommend-

d that the plough should be intrusted to Mr. Campbell, the new minister to the imperial court of St. Petersburgh, who could, with propriety, hring it to his majesty's notice through the secretary of state or the agricultural society. Mr. Daschkoff also encouraged the persuasion, that it would receive the approbation due to its merit. Application was then made to the honorable John Quincy Adams, secretary of state, at Washington City, for leave to send the plough to its destination, in the public ship, now bound to Russia. The matter was submitted to the president of the United States; who consented that directions should be given to the commander of the Guerriere, that the plough for the emperor of Russia might be received, for conveyance on board the vessel now lying at Boston.

The inventor, Mr. Jethro Wood, a respectable farmer, residing in the county of Cayuga, and state

of New-York.

The constructor is Mr. Thomas Freeborn, a very worthy artist, living in the City of New-York.

They both request me to express their carnest hopes, that this Georgical Utensil, contrived by the genius of the former, and manufactured by the skill of the latter, may be graciously considered by his

majesty.

The advantages of this plough are manifold, but may be referred to the following principal heads: niversity of Gottingen. 1. Its greater aptitude to penetrate the soil, and form a Turrow. 2. A simple and desirable fitness in the mould hoard, by means of the spiral form of its inclined plane, to raise the sward from its horiniversity of Gottingen. zontal bed to the perpendicular, and to turn it upside down. 3. The substitution of a cast-iron plate, of the cost of half a dollar, to be screwed to the low and fore edge of the mould board; instead of the heavy, expensive, and old-fashioned share. 4. The use of cast iron, instead of hammered iron, for the mould-board itself, and the severalland irons. 5. The construction of the entire plough, with the exception of the beam and handles, of cast and wrought iron, whereby every part is properly braced and secured. 6. Its moderate price, its strength and durability; and the small expense of time, labour, and stuff, requisite for repairs. 7. The saving of a considerable portion of the labour of the beasts who draw, and of the man who conducts the plough. 8. The handsome and workmanlike his cabinet, and the other for employment in the field. appearance of a field prepared for planting and sowing by this instrument.

Inspection and practice will disclose the other conveniences of Wood's FREEBORN PLOUGH, which is thus placed at the foot of the imperial

SAMUEL L. MITCHELL, Late Senator in Congress for New-York, Professor in the University, Member of the Agricultural Society, &c.

New-York, June 22d, 1818.

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EBENEZER FRENCH, PRINTER.

# AMERICAN FARMER.

# RURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRIJES CURRYRT.

" O fortunates nimium sua si bona norint " Agricolas." . . . . VIRG.

Vol. I.

# BALTIMORE, FRIDAY, JUNE 11, 1819.

NUM. 11.

#### AGRICULTURE.

From the Memoirs of the Philadelphia Agricultural Society.

Notices for a Young Farmer, Particularly one on Worn Lands, &c. &c.

WITH NOTES BY THE EDITOR OF THE AMERICAN FARMER.

[Continued from No. 10, page 74.] Explorations for Earths as manures. Apparatus for analyzing soils. Uses of chymical and mineralogical knowledge to a farmer. Jersey phirytous Earth. Water to be applied to atl its uses in husbandry. Advantages of some knowledge of practical surveying hydrostaticks, and the mechanic powers. Miscellaneous duties

X. Explore your own, and the neighboring farms, for clay, marle, peat, earths, &c. for common benefit, and emulative experiment. Hixing soils of different qualities, improves more lastingly than dung. Some acquaintance with MINERALOGY, would induce you to provide the necessary and simple apparatus required in analyzing soils; and that described and recommended by Lord Dundon ld. in his " Connexion between Chymist y and Agriculture," would be amply sufficient. See 1st. vol. Philadelphia Agricultural Memoirs, Selections, p. 57. You may also consult Sir H. Davy's Agri-

cultural Chymistry, on this subject.

A moderate share of mioeralogical and chymical knowledge, without extending it to the length required in a Scavan, will enable you to distinguish the qualities and properties of earths; so as to discover in your experiments, whether any substance be or not durably nutritious to plants; or a mere stimulant, (useful in its place and due proportion,) urging on the operation of other materials, without adding, of itself, any thing to the stock required for permanent fertility. It is said, by some, that the Jersey pyritous earth, called marl, is of this description, and by others, that it is permanently fertilizing. Nothing decisive can yet be pronounced, as its many varieties differ in their respective effects. There are facts hoth ways; so that this earth when applied, and the soil it is atended to assist, should be carefully scrutinized, and the qualities of both practically known. Some English chymists, to whom it has been sent, style it an Hydrat of Iron; whilst others designate its composition, as a collection of decomposed granite, schorl, silex, alumine, ron; in some specimens, (no doubt, those mixed with shells,) lime and magnesia, with sulphur. A more accurate knowledge of its parts and properties, is still required: and it is to be wished, that our own chymists will give us their assistance. Broom-grass, and other pests on worn lands, may be destroyed by a top dressing of this earth and chloritic sands of a similar, though not so potent a nature, which substitute a natural growth of white clover. They may be ploughed in, for permanent melioration, after laying for some time. These substances may be found in many parts of our sea-board country.

Render WATER subservient to all its purposes. Dams and ponds for collecting streams and their deposits, are magazines for manure, as well as heads for irrigation of grass, or even tillage crops; and watering is found, in countries wherein it is practised, equally beneficial to both. When springs or streams are absent, dams, to retain the deposits or rain-floods, are highly advantageous; by furnishing temporary irrigation, and finally, supplies for the compost heap. The Chinese have, time out of mind, set examples of constant use of irrigation; and their modes of raising water from rivers, streams, &c. and of applying it are to be found in many writers. (a)

Acquire some knowledge of PRACTICAL SURVEY-ING, and procure a small Compass, or a plane-table, or cross at least, with a chain and level. You will thereby be enabled to lay out your water courses, drains and ditches, to the greatest advantage. You could, also, lay out your fields regularly, and you should note their contents, and designate them by names, or descriptions. Too large enclosures are not beneficial, smaller fields afford more changes for cattle or tillage, and are more neatly, and less wastefully, fed or farmed. Some acquaintance with Hydrostatics and the Mechanic powers, would aid you in many branches of your business.

Visit, often, every part of your farm; and fix beforehand, your work. View, frequently, not only your water courses, but all your enclosures, crops and woodlands; and note what is amiss. You will thus guard against evils consequent on negli-

Shew yourself in your fields, in busy seasons especially. Your presence will animate the industrious, and stimulate the unfaithful and indolent. More profit will arise, if your concerns are extensive, from such attentions, than from all you could accomplish by your personal labor confined to one object; to which, however, if your circumstances compel you to submit, you will soon discover the superiority, (according to the country phraseology,) of "come boys," to "go boys" The one ensures your work;—the other leaves it half done. If you are rich enough to employ an Overseer, you will be fortunate if he will not require overlooking.

Although some of the acquirements and duties herein recommended, may not be necessary to a mere practical farmer: they are not the less worthy of the attention of one who wishes, and has it in his power, to gain a more perfect knowledge of his prolession.

Casual Failures should not discourage confidence in a general rule; nor controversies about theories, prevent perseverence in good practices.

XI. Be not discouraged by casual failures, from repetitions of good practices. Some seasons are more inauspicious than others, to some particular plants, or modes of culture. Confide in a general rule, although, in some instances, there may be successful exceptions. Avoid controversies about

lost, in a dispute on the cause or mode of producing it. A careful attention to facts, is far more instructive than the most claborate discussions on the-

Summer Dung to be collected; and how to be treated Hot lime injurious, and some remarks on Dung, and its state of fermentation.

XII Gather all your SUMMER DUNG; dropped near fences and hedge rows, (if you will suffer such incumbrances,) and under trees, and mix it with earth, on a ploughed head-land, to save it from sun. winds, and dung-beetles All dung should be covered either with earth or a roof, to prevent evaporation and waste of its most valuable ingredients. Mix no hot lime with your muck, dung, or compostheap, before fermentation has ceased, or sufficiently advanced, as it injures moderate fermentation, and sften consumes the muck. Instances, of even conflagration of strawy muck, by not lime, to a great extent, can be given. No doubt, excess of fermentation is injurious; and over rotted dung is not desirable. But extreme cases should not be resored to, for instruction or argument If lime be used, that slacked is always safest and best, when mixed with either dung or compost. A justly celebrated Lecturer, (Sir H. Davy) objects to watering dung. But it can be proved, by many facts, that infinitely more losses and injuries to dung in stercoraries, have accrued from the dry rot, for defect of moisture, than can be produced in watering muck or dung, from any cause. In covered stercoraries, as all ought to be, watering judiciously is all essential. See, among other proofs, Mr Quincey's account of his stercorary: 3d vol. Philadelphia Agricultural Memoirs, pages 290, 3, 4, 5 (b)

Winter Grain, subject to injury when sown the first year of liming.

XIII. Sow no winter grain the first year of liming fields. The crop is generally retarded in ripening, and caught by mildew, hlight or rust The liming here meant, is one sufficient for durable improvement of the soil Those who lay on lime in small quantities, which may do neither good nor harm, often, (not always, escape injuries, though they gain no immediate advantages.

Nothing requires more attention to the nature and qualities of your soil, than the use of lime. If it be too lavishly applied or too frequently repeated without intervals of grass to furnish vegetable matter; or manures, either animal or vegetable, ploughed in for the lime (according to the country phraseology) to feed on; it renders your ground lime sick, and reduces it to sterility Our caustic lime must be applied in quantities very far less than the mild lime of Europe, if we would avoid turning a highly beneficial auxiliary into a destructive sconrge. No certain rules, as to quantity per acre, can be fixed, without a perfect knowledge of the soil to which it is to be applied. In all cases, moderate quantities, at first, are the safest. Our common lime is here meant; as much depends on theories. An useful result is often neutralized, or the kind of hime applied. It must therefore be the

position, or what is called its strength; before they can form a correct opinion of its salutary or injurions uses. It would seem, that the mild lime had some fertilizing qualities in itself, otherwise the lavish use of it, whereof we read caunot be accounted for. The lime of burnt oyster shells, is mild: and land of any tolerable staple will bear great quantities beyond the proper allowance, to the acre of caustic line. See Mr. Allum's letter, page 190 of the fourth volume. Many other instances might be adduced. Both large and small quantities operate at once. But it is fugacious; and compared with caustic lime, soon exhausted. Of the mild lime of England, seven hundred hushels have been put on an acre; and two hundred bushels are common What is the strength of their mild lime compared with oyster shell time, or with our magnesian or caustic lime, is unknown Forty to sixty bushels of the latter, are amply sufficient, with us, for any worn acre; and for most part of our worn land, too much, at the first dressing. What quantity of oyster shell lime is proper at first, is not yet ascertained. Repetitions of smaller quantities, at inter-

Mere practical results being here intended, you must consult books, for technical and copious discussions on lime.

Selection and change of Seed. Crossing meliorates Grain and Fruit. Quantity of Seed to an acre. Variety of opinions concerning it. Drill Husbandry, and sowing in drills. Pluster sown oo winter Grain. Hessian Fly some remarks on it, and some guards against its nojuries; Wheats believed to be capable of resisting

XIV. Select the best seed of all your grain; roll it in plaster, after wetting it, if you will not steep it. But a change of seed entirely, when the grain has been sown too long on the same farm, can be at once accomplished, by procuring a full supply from distant places, and the more distant the better, without waiting for the tedious process of gradual selection, however commendable the latter may be. All thoroughly experienced writers recommended changes. (c) Some distinguish between native and the winter grain, both for its beneficial operation on exotic plants Our cultivated grains, particularly wheat, are exotic and should be frequently changed; though some instances of long continuance of the like crops from unchanged seed, may be produced. Where wheat is native, it is a mean grass; it being of the Gramina tribe It has been improved to its now perfect state, by change of locality and culture, and by crossing; which is effected by sowing different kinds together Wheat so crossed, has been proved to resist mildew and other maladies, when common wheat of one kind, in the same or adjacent fields, has been ruined. Melioration of plants by crossing is found to be so successful, that, in England, they are in the practice of applying a similar process to fruit trees. Mr. Knight has been very fortunate in renovating their Orchards, by crossing, from applying the pollin of one kind to the pistil of another, different kinds of apples, so as to produce, in a course of time, a new and vigorous race of apple trees; the old kinds having been, for many years, in a state of irretrievable

should be avoided. The barriers of nature must with solid straw, resist the compression of the in- spouts, runs, in currents, and is not equally sprinkled

unfruitful and worthless.

Our grain plants do not tiller, or stool, as formerly; and especially those necessarily sown late, to low hearded wheat has been found to escape injuescape the Hessian Fly. A greater quantity of seed must therefore be allowed, than our predecessors were in the habit of using. One would imagine, that in countries celebrated for agricultural knowledge, the point of thick or thin sowing had been long settled Yet in England, the Farmer's Journal, (a most valuable publication,) is filled with disputes on this subject; especially on the question whether poor land should or should not be sown thickly; and rich land thinly ?- Poor land should not be sown at all, with wheat, or any grain requiring much nutriment, if any adequate return be counted upon. It seems that spring wheat is s wn thick, as far as three bushels to the acre, in the menth of April. or beginning of May A kindthe triticum æstirum of the Botanists, may be lived, dibbled, or harrowed in, on bare places, where grain sown in the autumn has failed; and will ripen with the autumn sown grain. It is bearded, with whith straw and reddish grain, and does not mildew vals, would be better than applications of too much at once.

The Talavera, or Spanish wheat, is now in great credit in England Possibly spring wheat would generally escape the fly. No successful means have been taken to gain a perfect knowledge of agricultural facts, in regard to this formidable foe, although we have so long suffered under its desolating ravages. Oats may sometimes attract the fly and save your wheat; as Buck-Wheat sown or acciden tally growing among corn-hills, invites the grub from your corn-plants.

The drill-husbandry, and seeding with instruments for sowing in drills, calculated to save, as well as more regularly to distribute and nourish the seed, have had many vicissitudes of opinion and practice in Europe. Here, experience has been so much confined to a few, that it would be hazardous to pronounce, decisively, concerning it. It has zealous advocates; and should be an object of experiment, where circumstances warrant and require

the practice

Some contend for the efficacy of plaster sown on the growth of the plant, and to repel the fly the "Inquiries on Plaster," republished in the 2d vol. of the Memoirs, a suggestion of its uses to repel the fly was made; and lately it has been alleged, that it has been attended with success. But as to its use in increasing the growth or productiveness of the plant, great differences of opinion exist. When grass, (clover especially,) is sown on the grain, as is now the common practice, plaster is apt to throw up the grass so luxuriantly, that it in jures the growth of the wheat or rye, by keeping the lower joints of the stems so moist and tender, as to check the circulation of the sap and cause them to lay or fall, when the heads are formed, and become heavier than the straw will support; though they are often mere chaff, through want of sustenance which is engrossed by the grass. Still this practice has respectable advocates. Clean and good farming, with a sufficiency of manure, admitting late sowing, so that the flights of the flies are, for the most part over, before the young wheat plants are in sufficient forwardness to afford a lodgpoint of melioration; i. e. unnecessary repetitions best guards against its ruinous ravages. Wheats sterioraries. For water turned upon the heap through ment for eggs or nits of the fly, seem to be the

study of those who apply lime, to discover its com- not be broken down. Hybridous (c) mixtures are | durated tegument containing the nits whilst pipy stems yied to its pressure, and when the head is formed become prostrated by its weight. The yelries from this inveterate destroyer. Some other kinds have been spoken of, as having similar pro-(To be continued.)

NOTES.

(a) Tarigation. This word means watering or moistening the land, and comes from the Latin word irrigo. All such hard words ought to be explained once at least, for the benefit of readers, who are neither Lawyers. Doctors, nor Latin scholars. The means and the bene. hts of irrigation, or watering, was, it seems, well known and extensively practised, by the Aboriginal Americans on the Pacific Ocean, as is attested by that magnificent internal improvement, called the Work of Mayre, near the capital of Chile. This fertilizing operation is accomplished by con-

ducting the stream of water in a ditch above the field to be watered. The ditch being stopped up at any given int, a trench is opened in the bank, and the water is passed any where through the field in a small furrow, which may be made by two courses of the plough .-

These furrows are opened at any desired distance from each other.

Judge BLAND, in his late report concerning that country, attributes, in part, the great product of the Wheat crops in Chile, to the practice of irrigation. In page 77

-78, he remarks : "The average production of wheat in the graincountry south of Aconcagua, I believe to be truly estimated at about fifty bushels for one sown. The soil of the valleys of Chile, certainly has every external appearance of fertility; but, still I am inclined to believe, that much is to be attributed to the peculiarity of the climate of the middle and northern parts of the state. The grain is sown at the commencement of the rainy season, or soon after it sets in; after that is over, and as it is required, the field is regularly watered from a neighbouring stream; there is not much dew, no rain and never a wind to break or prostrate the stalk of the grain during the period of its growth : thus furnished with an abundance of moisture at the root, where, for wheat, it seems to be only wanted, a fervid sun, uninterrupted either by fogs, or rains, or heavy blasts or cold seasons, which, in our country, so often disappoint the hopes of the farmer, urges an uncommonly generous soil to exert all its energies, and gently brings to

maturity all its feculdity.' "The soil of the valleys of Chile, is as productive of harley as of wheat; and apparently, for the same reason but there is not much Indian Corn raised; because, as is said it requires its top as well as its root to be moistened and refreshed; and, therefore, the climate does not every where suit its growth as well as it does small grain. Chile is no less wonderfully fruitful in the pro-

duction of hemp than in wheat. " In the dry regions, the ridges and lesser mountains, which cannot be watered, seemed to be condemned to perpetual pasturage; they are annually clothed with a rich coat of grass, which is slowly ripened and gradually dried into hay, in which state it remains on the ground as good food for the cattle until the first rain in autumn, when it is spoiled or swept off, and there follows a season of scarcity of about two months, until this mountain grass springs up again. [His description of the famous work of Maypu, in our next.]

#### [b] Extract from Mr. Quincy's account.

"The area of my stercorary is 90 feet by 40, the cellar is in the shallowest part 8 feet deep, in its deepest 12 and in the well, if I mistake not, 15 .- it is open, nearly the whole length of one of its short sides, and one half of the tong, viz. at the north and west, besides large openings at the east. There is always 4 or 5 feet atmosphere above the top of the manure, and between it and the barn door: and a constant current setting one way or another This gives the advantage of a free circulating air, which in general, in such cases, is not obtained.

"The great difficulty I have had to encounter, arises from the necessity of an equal irrigation of the heap: 2

To obviate this difficulty, I ave constructed a very simple machine, which answers perfects. The stone piers, which support the beams of the barn, divide the cellar, lengthways, into three equal compartments. There a box 6 inches deep, 4 feet wide, and about 13 feet long, which runs by means of wheels, upon a sort of wooden rail vay, made by strips of planks and fixed about a foot from the floor of the bacu, this is perforated with suitable holes. A permanent spout extends through the middle of the cellar, and a moveable spout extends from this to the perforated box-regular openings are made in the permanent spout, which may be closed at will -- It is also closed at the end. By these means, the box is filled from the reservoir and pump, and each part successively irrigated perfectly and with great case. A man, by two day's labour, can irrigate my whole cellar, and if effectually done, twice in a season is sufficient.

I have been thus minute, because I thought the detail would not be unpleasing to you, and that I owed it to

the interest you expressed in my project."

are entertained, by men of equally good judgments and extensive experience, it would be presumptuous for the: but these having no fixed habits, were soon changed by Editor of this paper to decide, who is right and who is realityation into a numerous variety of very large and wrong. From his own limited observation, and the extremely luxuriant white ones; which were not only comparison of facts adduced by different writers, he inclines to the opinion, that the benefit to be derived by change of seed, bears no comparison to that which results from a careful and judicious choice of seed; or of breed-

When the farmer has come to a satisfactory conciusion, as to what kind of gram, or what breed of animals is best adapted to his purposes, all circumstances considered, we are persuaded that little then remains for him, but to choose, each year, from his general stock, such ears of corn or individual animals, as are most remarkable for those particular qualities, which induced him to adopt them for cultivation or for breeding. Thus, we are pursuaded, those desirable properties may be, not only perpetuated, but enhanced from year to year, and brought speedily to a state of the highest susceptible improvement. Witness the experiments of Bakewett, in forming breeds of different kinds of live stock. Not by crossing the breed, but by breeding in and in, as it is termed. His object was to obtain the greatest quantity of meat and the readiest disposition to fatten, with the least bone. The bone in the leg of the Bakewell Sheep, of which an account was given to the second number of the American Farmer, was searcely larger than the small end of a man's little finger.

The Gould seed corn, of which we spoke in a former number, as being so remarkable for numbers of rows and length of grain, was much improved, in these respects, by selecting from the whole corn loft, for seed, such ears as excelled most in these particulars, and was at last brought, as the Editor recollects, to that degree of execulence, in these points, that, it was not au uncommon thing to find ears having from thirty-four to forty rows. The Hon. Judge Davail informs us, that he now has the cob of or e which we gave him, from which he shelled forty perfect rows at will often happen, that a particular stock of animals, may possess several desirable quali ies, and yet be deficient in some excellent point possessed by some other breed, which, except in that point, may not be so good;—in such ease a cross of breed is to be recommended-but when the Farmer has obtained the desired combination of good qualities, then let him stop and breed in and in. We apprehend, that the Lancical and the fine sheep of the Blakes and Reynoldses, on the chil's of the Chesapeake Bay, in Calvert, would be an excellent cross.

To collect good seeds, according to the observations of Mr. Cooper, of Philadelphia, consists not in producing new seeds from distant places, as is generally supposed, but in selecting the best seeds of his own; which though he has constantly sown or planted them in the same soil, every article of his produce is greatly supe rior to those of any other person, who supplies the market, and they seem still in a state of improvement. He believed, that no kind of insect would degenerate the breeds of vegetables, and therefore adopted the plan of Mr. Bakewell, in England, in respect to quadrupeds who continued to improve his blocks and herds by the management of those, in which the properties

remarks of that enterprising genius and learned philosopher, Dr. Darwin, in his Phytologia, page 408.

" To generate the best kinds of seeds the most healthy plants must be chosen, and those which are most early in respect to the season; these should be so insulated, as to have no weak plants of the same species, or even genus, in their vicinity, lest the feeundating dust of weaker plants should be blown by the winds upon the stigmata of the stronger, and thus produce a less vigorons prozeny.

" Where new varieties are required, the male dust of one good variety, as of the nonpared apple, should be shed upon the stigmas of another good variety, as of the galden pippin; and it is probable some new excel-lent variety might be thus generated.

' Mr. Knight has given a curious experiment of his impregnating the stigmas of the pea-blossoms of one variety with the farina of another. He says, Treatise of Apple and Pear, p. 42, "Blossoms of a small white garden-pea in which the males had previously been destroyed, were impregnated with the farma of a large (c) On a matter, upon which opinions so contradictory elay-coloured kind with purple blossoms. The produce of the seeds thus obtained, were of a dark grey colour, much larger and more productive than the original white ones, but the number of seeds in each pod was increased from seven or eight to eight or nine, and not unifrequently to ten. The newly made grey kinds I found were easily made white again by impregnating their blossoms with the farma of another white kind. in this exper ment the seeds, which grew towards the point of the god, and were by position first exposed to the action of the male, would sometimes produce seeds like it in cotonr, whilst these at the other end would follow the female.

> "In other instances the whole produce of the pod would take the colour of one or other of the parents: and I had once an instance in which two peas at one end of a pod, produced white seeds like the maje, two at the other end grey ones like the female, and the central seeds took the intermediate shade, a clay colour. Something very similar appears to take place in ani mais, which produce many young ones at abirth, when the male and female are of opposite colours. From some very imperfect experiments I have made, I am ted to suspect, that considerable advantages would be found to arise from the use of new or regenerated variedes of wheat, and these are easily obtained, as this plant readily sports in varieties, whenever different kinds are sown together." See seet. VII. 2, 6, of this

> (d) Hybridous-a "hard word." It is derived from hybrida, latin, and means begotten between animals of different species.

### On the Kelp, or Sea Weed, as a manure.

Knowing, as we do, that, a great quantity of kelp, or as it is usually termed, sea weed or sea ore-is east upon the shores of farms in Maryland, lying on tide water; the following communication of experiments, as to its utility, as a means of fertilizing land, eaught our attention in the Richmond Enquirer, in February last, and was read with special interest Of all species of litter for farm yards and stables, this appears to be the best, because independently of its own fertilizing powers, it serves as well at least as any other litter, for absorbing and retaining other manures with which it readily and advantageously compounds. Observing that some time had elapsed since the date of Mr. Gryfin's memoranda, and presuming that in the mean time he had multiplied his experiments, we took the liberty of addressing him, soliciting the results of his subsequent observations. The letter, bearing date May 26th, 1819, is the reply with which we have been politely favored, and for which we repeat our acknowledgements

We have understood, that Col. Maynadier, the President of the Agricultural Society, at Annapolis, is making trial of the kilp, on his land, and we shall endeavour to procure the result -It is probable, that it will act with more or less efficaey, according to the saltness of the water with which it is saturated at the time of being thrown upon the shore, and the interval which clapses

over e heap, like rain; which is nature's process in | regard to consangumity or incest-let us here add the | the firm yard, or to the land.-In all situations, however er, it must be a valuable resource, either as a manure in itself, or a ready means of collecting and increasing other manures,-and ought to be husbanded accordingly.

> Paper laid before the Agricultural Society of Varginia, at their tast meeting.

> "The splendors of royalty, and the trophics of ambition, may elevate the voice of adultation, but they expire with the hour, and the monarch. They, indeed, are the benefactors of mankind, who hestow on posterity their most reimed pleasures, and their most useful speculations."

> > YORKTOWN, NOV. 8, 1818.

Si -Being of that class of society denominated agricultural, I beg leave through you (the organ of communication) to tender to the " Agricultural Society of Virginia," my thanks for their exertions to revive the almost expiring husbandry of our country. I have been much gratified in the perusal of their roccedings, and I hope edified by the communicaions they have given to the public. Let them steadily proceed in their faudable objects; they will soon receive the meed of their useful and patriotic labors, in the applause and gratitude of their fellow men, and in the delightful reflection of having advanced the character and prosperity of their country.

When I reflect that agriculture is the only source wheuce man, and I may say almost all animated nature, derive the means of subsistence, I am astonished at the neglect, and apparent contempt, with which she has been treated. Indeed until within a lew years, the pursuits of husbandry were not deemed the most reputable, or honorable. What! can that be aught than reputable, which gives bread to man? Can that be aught than honorable, which increases individual and national prosperity? And yet, when on one side I view with exultation; the increasing commerce of this nation, unfurling her swelling canvas to every breeze, and on every sea; nurtured, and supported, by legislative aid and legislative protection; on the other I am appailed by the inelancholy picture which her elder twin sister, Agriculture, presents-sinking under numerated neglect, and pining in unassisted obscurity, apparently "the world lorge ting," certainly "by the word forgot." ...... " ..ook on this pieture, and on that," and laying your hand upon your heart, deny, if you cao, that the industry and enterprise of mankind have been too long diverted from a pursuit and occupation, which seems to have been marked by heaven, as their most useful (and consequently) honorable avocation. The "Agricultural Society of Virgima," having thrown open the doors of enquiry, and solicited the lights of experimental knowledge, I beg leave to obtrude upon their time, and to offer to them the results of some crude experiments on substances for manares The patriotic and enitableened president of your society, has been pleased to say, (and very justly) that "the first necessity of agriculture, is fertility;" permit me to add that the grand areanum of good husbandry, is the production of the greatest possible quantity of fertifizing earth. In the present exhausted state of our lands, produced by the unaiding and unrelenting culture, (I mean no disrespect to their memory) of our progenitors, it becomes absolutely necessary to resort to artificial and natural manures to restore their los, fertility Fully impressed with this belief, a lew years past my attention was drawn to a marine vegetable, which promises to reward the labourer for his ton-I e wished to produce, were most conspicuous, without between that and the time when it is applied either to the "kelp," or "sea weed," as it was commonly

the beds of our rivers, and thrown upon their shoreby the tides. I commenced my experiments in 1800. thus . . . . I covered a space of land of ten acres with kelp, about 3 inches deep; it was taken from the shore in an undecayed state, and dripping with efficacy would be enhanced if decomposed before it trick's," that he who makes two blades of grass the salt water of the river. A cart lead of 10 or is used as manure. The immediate operation of grow where only one grew, is of more value to sodeposited at each angle or corner of a space of land attributed to the inuriate of soda it contains, and to Holding this faith, I tender to the "Agricultural five yards square; these bulks were spread inward the animal substances found intermixed with it; Society of Virginia" the homage of my high respect of the square, until they met, and was equally diffused over the whole surface it was intended for When the whole space of ten acres was thus covered it was immediately ploughed in, with the largest plough then in use among us: this was done in winter-the ensuing summer it was planted with corn. The average product of this land, was three barrels per acre. The soil was light, some grit and some shell intermixed. The corn, on the piece thus manured, took an earlier start in vegetation than the corn in the adjoi ing land, and throughout the summer preserved its superiority in color and luxuriancy The product, (I write only from memory, having preserved no memoranda of any of my experiments) was, as well as I can now recollect, lifty. eight harrels of clean, sound, long corn.

Encouraged by this experiment, the ensuing spring I attempted one other with kelp. Four acres of land of the quality above described, were well covered in the manner above stated, and "turned io," and in March sown with oats, as was the surrounding land. The oats on the sea-weed land soon manifested a decided superiority, distinguishable by their increased height, and rich, deep green color which they maintained over the other oats un til the period of ripening The produce I cannot state, because not measured; as much of the crop was lost, by the falling or 'lodging' of the oats, the consequence of their extreme luxuriance. If I mistake not, you, sir, were an evidence of this experiment; you saw the oats in the month of May. I remember the expressal of your conviction of the

value of kelp as a manure.

Not satisfied with these experiments, I proceeded to the trial of kelp as a manure for tobacco half acre of land, in a field of eight acres, was covered with kelp, solely; the rest of the field was well manured from cow pens and stables - At first, the plants in the hills of the part where the kelp was, appeared feeble, nor grew with the vigor of the plants around them. In June, a drought of three weeks duration took place; when to my astonishment and dalight, perceived these plants to become of good color, shortly assuming an healthy dark green bue, and shooting forward during this dry weather, they recovered their inferiority, centending for mastery with the plants around them, which they soon acquired, and preserved All the plants in the field were topped to ten leaves. The kelp land produced a dark strong tobacco-the rest of the lot was of a yellower east, and milder into existence. when smoked Never expecting to communicate this experiment, except orally to my friends, I have preserved no memoranda of weights or quantity I am satisfied the weight was greater, in pro-

witi also be found beneticial to wheat, on a fallow,

the experiments detailed above, were all made with this communication induce a single person to an efhe green and wet vegetable, yet fresh from the fort to improve his soil, I shall be amply rewarded. bed of the river. I have never used it, in a com- I have thought, (ever since I did think upon the post; nor in a decomposed state; but doubt not, its subject) with the celebrated "Dean of St. Pa-12 bushels in its wet state (it is very heavy) was the kelp, in its green and undecayed state, I have liety, than all the politicians & statesmen of an age. which are chiefly of that class usually denominated for their characters, and the noble cause in which inettles, which being gelatinous, are speedly dethey are engaged; and to you, sir, the assurance composed after inhumation. In all the experiments of my esteem and friendship I have made with kelp, I have observed that the spot where the wet load was deposited always produced a more luxuriant vegetation for the first year, than the other portion of land which was covered after the kelp had remained some days exposed to the rays of the sun, and consequent evaporation. My GOOD SIR,

In some minor experiments with dry sea weed, them worthy of their attention.

-that should any of my countrymen be disposed to ly on our lands bordering on salt water. The exshall proceed to this experiment in the course of use the kelp as a manure, they may do so with the periments made with gypsum in this part of the

termed. This is an indigenous plant, growing on the ensuing summer. You will perceive, sir, that experience of which I am possessed; and should I by

THOMAS GRIFFIN. Dr. JOHN ADAMS, Secretary of the ? Agricultural Society of Virginia.

TO THE EDITOR. dated-York Town, Jurg. May 26th, 1819.

Your polite favour of the 26th ultimo, was I have found it not so immediately active as the duly received; for which, and the several numbers green, and wet with our salt river water; which has of your valuable and interesting poper the ("Ameriinduced me to suspect that our river water may be can Farmer'?) which accompanied it, accept I pray made a source of improvement to our husbandry, if you, my sincere thanks. Such publications as you used as a menstrum in composts. The kelp I have are now engaged in, cannot fait to be beneficial to found to be longer in the process of decomposition society, if the friends to agriculture, and the practuan any other vegetable I have used. In the fields tical portion of our husbandmen, will common te where I have used kelp, in 1811, 1812, I found ma- the results of their efforts and experience. It is ny detached parcels of it yet unrotted the last year, a melancholy truth, that the votaties of Ceres, have (1817, when fallowing for corp. Hence it would too long slumbered in the dornitory, of (at least appear a durable manure, gradually yielding its ferti-lizing properties: nor did I perceive the crop on the withheld from society the light they might have afland when last tilled, to be inferior to that which forded. The establishment of state agricultural sogrew the year the 'weed' was first applied. I creties, will probably arouse them from their sloth. have no doubt but that a compost of kelp and marl and I hope, (with you) dissipate their reluctance to or any calcurious substance, laid in alternate strata appear before the public. The state of, almost of each, and the salt river water accasionally ap-hopeless exhaustion, to which a continued series of plied as a dissolvent, would produce a manure, equal had husbandry, had nearly reduced a large portion of if not superior in value, to any now in use. To the country around me, had drawn my attention to the husbandmen of this section of the state, kelp is the subject of manures, and particularly to the kelp an easily attained, and, in my opinion, estimable or sea weed, with which, our rivers near the Chesmanure. In the southern banks of this river, and apeake abound, my experiments exceeded my most the banks of the creeks which discharge their wa-sanguine expectations, and though I was aware, that ters into it, vast bodies, I may almost say mexhaus- the communication of them, to the Agricultural Sotable supplies of marl are to be found, which, when crety of Virginia, would be uninteresting to a large the industry of our agriculturists shall bring into portion of the members, yet it might possibly find use in the compost above suggested, will, I am cer the way to that section of the state, where this matain, so far increase the fertility of the soil, as to nure could be procured, and thus my object be ancheck the tide of emigration, and dissipate the Ala-swered. The notice you have proposed to take of bama mania which now rages among our citizens this communication, demands my acknowledgements.

I shall proceed to other experiments, and on a dif- I will now answer, as far as my experience will ferent soil, with the kelp; and shall occasionally con-permit me, the queries contained in your letter .time my communications, if the ociety shall deem 1st, I have no data on which to form a decided oem worthy of their attention. pinion of the effects of gypsum on land to which the The agriculture of our country can only be im-kelp has been applied. I have hitherto made no exproved by the dissemination of correct principles of periments of the combined effects of these manures the science and practice of husbandry; the experi- but I am induced to believe, their agency would not ments of skilful farmers, and improvement in im- be so beneficial; because the muriat of soda, we plements of husbandry. These are, (I presume,) find in the sea-weed, if brought into direct contact some of the objects, which called your "Society" with the sulphate of lime, or plaster of paris; this direct combination, might destroy the active prop-I. fear sir, I shall have trespassed upon the time erties of the gypsum, or plaster. 2dly, Nor can and patience of the Society. If so, I " cry their I think, that the kelp and plaster act in the mercy." If they shall find any matter contained in same way; the active a ent of the sea-weed, being the present communication, I shall have attained the muriat of soda, with which it abounds, particuportion to the number of plants, in the kelp than that of the other manured land.

These experiments of kelp as a manure for corn, to the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being that of the other manured land.

These experiments of kelp as a manure for corn, to the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, and hazafford my inite to the stock of agricultural information.

I have been thus minute in detailing the example of the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being the object I had in view when I commenced it, to tarly when fresh; that of the plaster of paris, being the object I had in view when I commenced it, to tarly when fresh; that of the object I had in view when I commenced it, to tarly when fresh; that of the object I had in view when I commenced it, to tarly when fresh; that of the object I had in view when I commenced it, to tarly when fresh; that of the object I had in view when I commenced it, to tarly when fresh; the object I had in view when I commenced it, to tarly when fresh; the object I had in view when I commenced it, to tarly when fresh; the object I had in view when I commenced it, to tarly when fresh; the object I

self made only one triat of it. We are much infested learly, and active effect upon the weed; as, when dress self made only one trust of it. We are much intested here, with a grass termed the "wire grass" and a vine bearing pea, called the "Patridge pea." I had prepared a lot of ground for red clover very well, and the clover sown in the fail, rose well; the spring twelve months succeeding, I took off an early crop of hay, and plastered immediately one third of the lot. The plaster evinced no effect for some of the lot. The plaster evinced no effect for some with a grass of population, there is no inconsiderable matter had taken place. I am satisfied that the kelp passing through a stable, or farm pen, will be found, and plastered immediately one third of the lot. The plaster evinced no effect for some wall as the bulbous recent large and the rose of the lot. The plaster evinced no effect for some wall as hubbous recent large and the rose of the cause, might be found, well as hubbous recent large and rip, the in numbers, sufficient to perform a large part of the

tended, so far as to produce fatigue, I have found, ductions. conducive to my health. The last summer I made fresh from the river. Twenty other hills were planted with the appropriate twenty hills were planted, and the common cow-pen manure used, another twenty hills were planted with the ashes from a vessel, from which lie had been drawn. The claim, and the ashes were obliged to be pulverised, they were from the ashes were obliged to be pulverised, they were form the purposition. For white they would consume neither meat, drink, nor clothing, they would perform the work of a another twenty hills were planted with the ashes with sea weed, plaster, unslack-lixibing had been drained from the ashes, some experiments with sea weed, plaster, unslack-lixibing had been drained from the ashes, some characterised in the selection of the employment to which they were accustomed. What a called the selection is a selection of the before application to the hill They were (each parcel cultivated in the same manner, and on the I lament that you have thought it necessary to apolisite manual labor. We are told that 1800 are weekly same soil, a light loam; the potatoe planted with agise. As members of the same great family, we landing on our shores, a majority of whom are probably with the kelp from the stable, presented an health- aid shall not be withheld. ier appearance, in size, and colour, than either of the others; I carefully watched their growth, and of, sir, your humble servant, TH. GRIFFIN. when the stalk, by its declining, or rather decay, evinced the time of maturity of the vegetable, I had the whole dug, and each separately measured -The product from the hills manured with kelp from the stable, was one fourth greater than either of the other parcels; the potatoes were considerably larger table were dryer (or as it is commonly termed, more posed scarcity of hands in the United States. mealy) than those taken from either of the other abled to account for the superiority of the kelp from the stable, only from the combined effects of the stable, only from the combined effects of the stable, only from the combined effects of the stable, only from the sea-weed contains, and yet such must be the case, unless some labors on an extensive eale." Glorio s news' Let him bedy can divine the ways and means of paying foreign be received with a hearty welcome. Such an accession and the volatile salts and nitre which it had imbibed

ly valuable; the quantity, not species of vegetable farmer whose industry shall lead him to the use of wages of 50 dollars per annum, the annual value of one only, heing the desideratum among farmers, who this weed, will, I am sure, soon find himself amply million of persons would be fifty millions of dollars—a raise grasses for live, or green manures.

You are pleased sir, to request, to be furnished severe in its use—I should certainly prefer its pass—White states than in any other country in the world.

J. S. SKINNER, Esq.

FOR THE AMERICAN PARMER.

DOMESTIC MANUFACTURES...No. 5.

state, have been few, and unmatured. I have my- while in the stable, which appear to have had an satisfy their demand, in a state of civility and taste for

days, when suddenly the pea and "wire grass?" were seen to rise luxuriantly, and both continued to grow manure, I should be much disposed to contest to the entire destruction of the clover. When the pea to the manufacturing evidence, when the pea to the entire destruction of the clover. When the pea to the pea to the entire destruction of the clover. When the pea to the pea to the entire destruction of the clover. When the pea to the pea to the entire destruction of the clover. When the pea to the pea to the pea to the pea to the pea to the pea to the pea to the pea to the manufacturing evidence, would be much disposed to contest to the entire destruction of the clover. When the pea to the pea to the manufacturing evidence, and that while necessity, humanity or custom, would be much disposed to contest to the entire destruction of the clover. When the pea came to maturity, and sunk after seeding, the wonderful Ruta Baga, as food, of greater nutrition than one half of the persons, employed in the cotton wire-grass continued to increase; the clover disappeared. Hence it would appear, that plaster of peared will not be felt, as long after it has passparis is a beneficial agent, in the production of ed through the farm pen, as if it were applied to the grasses on lands bordering on salt water rivers; for son tres a from the river; but where it abounds as be made to the policy of encouraging them. How imthough, in the experiment above cited, I lost my bound as it does, on the shores of the hesapeake, portant it is to furnish a very useful employment to a clover, yet an ample crop of other grasses succeed and her tributary streams, no difficulty can arise in in idleness and mischief, devouring the fruits of indused, which viewed as manures, would have been equal-

with "notes of any other particulars which subse-ling-through a farm pen; an earlier effect will be the It would be attended with the greatest possible advanquent experience? may enable me to make. I am me consequence; and imbibing active agents from tage without the least disadvantage. If there be a scarquent experience" may enable me to make. I am one consequence; and induming active agents from setting the animal faces, will be another; thus increasing city of hands, it would supply the want of them; and there fond of gardening, and frequently amuse myself in the animal faces, will be another; thus increasing city of hands, it would supply the want of them; and there some fond of gardening, and frequently amuse myself in the animal faces, will be another; thus increasing city of hands, it would supply the want of them; and there personally assisting in this culture, which if not ex its value, as an active pabulum for vegetable pro-the introduction and use of it-none to suffer and growl for being deprived of the means of subsistence; I fear, sir, I shall have transgressed by this pro-The streams, in every state, and in almost every county an horticultural experiment of the sea-weed as a lix communication. Soon after I received your let-io the union, abound with powerful water falls. The manure for the potatoe, (solanum tuber osum) 1 ter, I was called from home, upon necessary busi-combustible materials, necessary for the production of planted twenty hills with potatoes, with the sea-ness, which has been the cause of delay, in answer-steam. Machines, used as extensively as they might be, weed at the bottom; which, weed had previously passed through my stables, as litter for my borses. If exculpatory of me, from the charge of designed are adequate to perform. It should be considered, that Twenty hills more, were planted with the kelp, neglect. Prior to the reception of your letter, I the mechanic powers would be a vast capital to the national powers would be a vast capital to the na

the cow manure rose earlier, and maintained a su- | ire bound to afford any light or information we may mechanics of some kind, and many, especially of the the cow manure rose earlier, and maintained a superior luxuriance of top, or vine, over all the rest; possess, to each other, and to the community, by the stalk of the potatoe, which had been manured which its prosperily may be advanced. My feeble are thrown out of employment in England, who, in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in spite are thrown out of employment in England, who in of the restrictive law of non-expatriation, will find their Be pleased to accept the assurances of respect, way to the United States, even if they are obliged to come through France as upwards of 500 lately did .-They will cheerfully enter into factories if opportunity The encouragement of domestic manufactures would not only give employment to foreigners compelled to seek an asylum in the United States, but would invite and draw hither men of skill and capital to add strength and beauty to the system. We have already many honorable examples of the success of THE practicability of success, in Domestic Manufac of reigners engaged in the useful arts among us though fewer in number; and when dressed for the tures, has been thought doubtful, on account of a sup-gentlemen Duponts, on the Brandywine, near Wilmington in Del have rendered that stream as famous for In comparing the population of the country, with the its factories, as it is for the battles fought there by the quantity and quality of its lands, every one must ac heroes of the revolution. We need not look beyond hills. In number (not in size) the cow-penned hills knowledge, that there is room enough to admit of a great our own city. Barker's foundery, in North Calvert far exceeded The produce from the hills where increase of husbandmen, not only for the settlement of street, has been raised in a few years to its present the other manures were used, was large and nearly places, entirely uncultivated, but also for the good entirely state, by a foreigner, who came to this country pennyand. I thus found by this small experiment, that ture of those already settled. But cannot manufactures less and friendless. A noble example of the prosperity equal. I thus found by this small experiment, that flourish in the United States, until there shall not be of industry, honesty, and economy! We quote the folgourish in the United States, until there shall not be of industry, honesty, and economy! We quote the folgound in the wide waste, between the Atlantic and the lowing article, from Niles' Weekly Register, of Saturture of the potatoe, but especially the kelp; which had passed through the stable; and I have been encultivator? Who dare say, that millions of civilized has recently been shut up, and several hundred hand, in passed will release to the savage state of the Indians of lowescoping turned out of employ. The proprietur is congress, during the last session.

In the cities and towns on the Atlantic, there are thousands who will be compelled to abandon their residence, unless they be furnished with some means of subsistence more than commerce, without manufactures, can afford. Many, having practised mechanic arts would be better capable and more inclined to labour in iron, if any tendency to bloody urine should appear, to the construction and management of manufacturing which this animal is liable. The method of preventing the construction and management of manufacturing powers, than in the business of clearing and cultivating lands.

Some parts of the United States are pretty thickly settled, and could spare from agricultural pursuits, ma ny hands, who would rather engage in factories on the spot of their nativity, among their friends and relations, than go far from home, to cultivate the waste lands of the west.

Whatever charms there may be in rural scenes, it would seem, that they have not been hitherto irresisti bly attractive. Our cities and towns have been filled with tradesmen, and professional men, with no very bright prospects; while the productions of the soil bore a very high price. And what additional attractions will agriculture hold out to the lovers of grain, when wheat is four or five dollars per barrel, corn meal at about forty or fifty cents a bushel, cotton at twelve or fifteen cents a pound, and other articles at the same rate; with no prospect of hetter prices. Under such circumstances, it seems by no means impossible, that even cultivators should turn their hands to manufactures

#### OPIFICI AMICUS.

#### THE MURRIAN,

A DISEASE INCIDENT TO HORNED CATTLE. N0, III

TO THE EDITOR OF THE AMERICAN FARMER. of the cause, character and treatment of the obstructed bowels, in the cattle of Pennsylvania, I will now trouble you with those of what the murrian really is, and some explanatory remarks. The term murrian if its history is looked over in conneclocal or casual disease. The Pennsylvania dismisuse of that term-

A disease frequent among cattle in Ergland called Foul Water, appears similar to that of the Pennsylvania disease. Dr. Darwin, referring to it as notorious, without describing it in his Zoonomia, class i. ii. 1, 7, under the head Hamorhagia Renum, says "Cows are subject to bloody urine, called foul wain which stage only be may have considered or adin brute animal diseases. Under the head Pestis race, has at least, its peculiar epidemic diseases-

terial debility; as in some of them, in the latter stage of |did not, the same causes so diversely applied must | mankind; and the same freedom of intercourse which

parts, which evinced a considerable progress of gangrene beneath the skin. In the sensitive inirritated fevers of these animals, I suppose about sixty grains of ent kinds of animals, goes so far, that numerous aopium, with two ounces of extract of oak-bark, every six hours, would supply them with an chicacious medicine; to which might be added thirty grains of vitrio! of the infection from spreading, if it should ever again gain access to this island, would be immediately to obtain an order from government to prevent any cattle from being removed which were found within five miles of the place, supposed to be infected, for a few days; till the certainty of the existence of the postilence could be ascertained, by a committee of medical people. As soon as this was ascertained, all the cattle is so fabulouslyprolific of brute animals, as to have aswithin five miles of the place should be immed ately slaughtered, and consumed within the circumscribed district; and their bides put into lime-water, before proper inspectors.

gives the history of a similar epidem c in Italy, is identify the yellow water of horses with Bilinus 1793, sweeping as it were in a torrent through the Remittents, when the marshes, the factory, and rewhole brute creation of the country. In it, ob servoir of them, habitually provide luxuriant bed and structed bowels was a leading symptom and the board for the beast. And may not the father of poetry yielding of them on the 3d day, attended by cutane- have displayed more science in it, than skill in surnus perspiration was always favourable, while on the gery, when he consolidated the brute and human contrary, under continued obstruction "the abdoinen diseases of the Grecian camp into one epidemic. became inflated, the hair dry and stiff, and easily seeing that in fact all climates, in their influences disengaged by the fingers; the strength failed; the on health, are universally favorable to them ears became withered and pendant. Cutaneous per-lelse could it happen, that through the long annals spiration ceased, the breath grew fetid, respiration of the world, and black catalogue of epidemics, a c >m-Sir,-Having stated summarily my impressions difficult, the animal tottered, and if it fell, had not mon mortality should rarely concur in them; that epower to rise. Sometimes at this second period, en when human have was so wide and so awfulthe intestines relaxed spontaneously, for the copious discharge of a black fetid excrement. To this succeeded an almost constant dysenterick flux of blackish, bloody matter, equally fetid; the debility tion with that of epidemics among black cattle, will increased, and the animal died. Malignant tumors perhaps be found applicable to them only in a low appeared sometimes on cows, near the udder." form of fever, with strong tendency to inflamma-Bleeding early was useful, and if delayed, proved tion and mortification in various vital organs, the very injurious Other correct histories might be bowels especially, and not properly referable to any adduced, exhibiting the same character and course of disease, while numerous writers are found even of BALTIMORE, FRIDAY, JUNE 11, 1819. ease not being epidemic, the application of the some repute, describing badly, and treating worse, term murrian to it, is falling in with the practical these and other diseases confusedly as murrian, under the titles morrian in the guts, in the throat, in hogs, dry murrian, &c. The above references and explanations may tend in some degree to show what the murrian really is, and what it may be readily mistaken for, and thereby lead to correct present mistakes and to encounter future evils. I am not aware, that such a disease ever has or can preter, by the farmers; in this disease 60 grains of vail in America, but comparing our climate with rate, the cares and the interests of Husbandry. Fortuopium, with or without as much rust of iron, given those congenial to it, such an event would not be twice a day in a ball mixed with flour and water, deemed impossible, and could not fail to prove vastor warm ale; are I believe, an efficacious remedy, ly calamitous in the present crude state of ou knowlto which however, should be added, two quarts of edge of these matters - Every climate, however, barley or oats twice a day, and a cover at night, if has its epidemics, and in the present state of genthe weather be cold;" evidently considering it a lo-leral science, it is certainly a deep opprobrium to any cal disease arising from some specific cause, which civilized country to be unacquainted with those at he does not intimate, and prescribe garemedy, which least, which belong to it. The murrian, as here I have suggested as applicable to its last stage, and viewed, has been generally described as possessing a peculiarity almost sufficient to characterize it, viz. ministered to it, in consequence of the early symp-invading almost indiscriminately all orders of anitoms having been overlooked, as must often occur mals, contrary to the general principle, that each or Plague, class, ii. 1, 3, 13, Dr. Darwin notices but the existence of such a peculiarity, may well be what is no doubt the true epidemic murrian, as fol- questioned, not only on account of its deviation from the general law, but in the fac s that the specific The pestis vaccina, or disease amongst the cows, which afflicted this island about half a century ago, which afflicted this island about half a century ago, reems to have been a contagious fever, with great ar-

banks it contains; more than even all the speeches of the disease, an emphysema could often be felt in some necessarily produce different effects or forms of dis-This character in the constitution of differgents, deadly poisonous to some, are nutritive to thers, as the water hemlock, to cows and goats, &c. see Anderson's Agriculture, vol. ii. p. 56 iniversal mortality then cannot well be ascribed to a specific cause and may be otherwise accounted for. Under these circumstances, it seems strange, that )r. Darwin should class a " Pestis Vaccina" rain or plague in cattle, under the head "Pestis" or plague in the human species, especially as the region of the Nile, the nest and nursury of the plague. cribed to its waters feecundating properties That Larry should consider the human species as susceptible of brute animal contagion in Italy, notoriously the elysium of human health, and a Pandora box to Larry's memoirs, by Dr. Hall, vol. ii. p. 85, that of the brutes-or that our Doct. Tush should

> "That o'er the friendless bier no rites were read, "No dirge slow chanted, and no pall outspread " Still every creeping thing should pass the fiery ordeal unhurt. The simple cause seems to be that luxuriant vegetation, and the seasons which cause it are conducive to the health of brutes and destructive to that of man.

#### THE FARMER.

#### INTERESTING EXTRACTS

Roman Agriculture-Gibbon ,-Athenian Agriculture-Abbe Barthelemy; - . Imerican . Agriculture -- Governor Clin-

It has been the misfortune of our country to look pon agriculture as a grovelling vulgar pursuit-Thus men of fortune have devoted their best educated children, to what are emphatically termed the "Learned Professions"-leaving to the most neglected and illitenately for the reputation, not to say the salvation of the Republic, we begin to form a more just estimate of the dignity and the rational and varied delights of Agriculture-We begin to see, that the most beautiful and enghtening sciences are connected with, and necessary to, the successful operations of the plough and the pruning hook.

If there be any, who, entertaining false estimates of its true character, as a science, still refuse to educate their sons with a view to the pursuits of Agriculture, as an honorable and elegant vocation, we would recommend to their perusal, the following extracts, to shew, that some of the greatest and most eloquent Historians and Statesmen, in different ages and countries, have not thought the subject unworthy of their attention-and to show that such enquiries are not incompatible with splended proficiency in other branches of knowledge.

#### EXTRACT NO. I.—GIBBON.

"Whatever evils either reason or declamation have

extended the vices, diffused likewise the improve-| reign of Tiberius; and it may be observed, that ments, of social life. In the more remote ages of was in the immemorial possession of arts & luxury; whilst the west was inhabited by rude and warlike whom it was totally unknown. Under the protecthors. tion of an established government, the productions of nations, were gradually invoduced into the western countries of Europe, and the natives were encouraged, by an open and profitable commerce, to multiply the former, as well as to improve the latter. It would be almost impossible to enumerate all the articles, either of the animal or the vegetable reign. which were successively imported into Europe, from Asia and Egypt; but it will not be unworthy of the dignity, and much less of the utility, of an historical work, slightly to touch on a few of the principal heads. 1. Almost all the flowers, the herbs, & the fruits, that grow in European gardens, are of foreign extraction, which in many cases. is betraved even by their names: the apple was a native of Italy, and when the Romans had tasted the richer flavor of the apricot, the peach, the pomegran ate, the citron and the orange, they contented themselves with applying to all these new fruits he common denomination of apple, discrimin ting them from each other by the additional epithet of their country. In the time of Homer, the vine grew wild in the Island of Sicily, and most probably in the adjacent continent but it was not improved by the skill. nor did it afford a liquor grateful to the taste of the savage inhabitants. A thousand years afterwards, Italy could boast, that of the four-score most generous and celebrated wines, more than two-thi ds were produced from her soil. The blessing was soon communicated to the Narbonnese province of Gaul; but so intense was the cold to the north of the Cevennes, that in the time of Strabo, it was thought impossible to upen the grapes in those parts of Gaul. This difficulty, however, was gradually vanquished; and there is some reason to believe, that the vineyards of Burgundy are as old as the age of the Antonies. The olive, in the western world, followed the progress of peace, of which it was con sidered as the symbol Two centuries after the foundation of Rome, both Italy and Africa were strangers to that useful plant; it was naturalized in those countries; and at length carried into the heart of Spain and Gaul. The timid errors of the ancients, that it required a certain degree of heat, and could only flourish in the neighborhood of the sea. were insensibly exploded by industry and experience. The cultivation of flax was transported from Egypt to Gaul, and enriched the whole country, however it might impoverish the particular lands on which it was sown The use of artificial grasses became familiar to the farmers both of Italy and the provinces, particularly the Lucerne, which derived its name and origin from Viedia The assured supply of who esome and plentiful food for the cattle during winter, multiplied the number of the flocks and herds, which in their turn contributed to the fertility of the soil. To all these improvements may be added an assiduous attention to mines and fisheries, which, by employing a multitude of laborious hands, serve to increase the pleasures of the rich, and the subsistence of the poor. The elegant treatise of Columella describes the advanced state of the Spanish husbandry, under the rival was in the year 1793.

those famines which so frequently afflicted the inantiquity, the world was unequally divided. The east lant republic, were seldom or never experienced by tion is received, that the U.S. sloop of war Hornet, G. the extensive empire of Rome. The accidental scarcity, in any single province, was immeditely barbarians, who either disdained agriculture, or to relieved by the penty of its more fortunate peigh-

Agriculture is the foundation of manufactures; happier climates, and the industry of more civilized since the productions of nature are the materials of art. Under the Roman Empire, the labour of an industrious and ingenious people was variously, but incessantly employed, in the service of the rich. In their dress, their table, their houses, and their furniture, the favourites of fortune united every refinement of conveniency, of elegance, and of splendour, whatever could soothe their pride, or gratify their sensuality. Such refinements, under the odious name of luxury, have been arraigned by the moralists of every age, and might perhaps be more conducive to the virtue, as well as happiness of m nkind, if all possessed the necessaries, and none the superfluities, of life. But in the presen imperfect condition of society, luxury, though it may proceed from vice or folls, seems to be the only mea stuat can correct the unequal distribution of property. The diligent mechanic, and the skilful artist, who have obtained no share in the division of the earth, receive a voluntary tax from the possessors of land; and the latter are prompted by a sense of interest, to improve those estates, with whose produce they may purchase additional pleasures, this operation, the particular effects of which are felt in every society, acted with much more diffusive energy in the Roman world provinces would soon have been exhausted of their wealth, if the manufactures and commerce of luxury had not insensibly restored to the industri us subjects, the sums which were exacted from them by the arms and authority of Rome. A long as the circulation was confined within the nounds of the empire, it impressed the political nachine with a new degree of activity, and its consequences, sometimes beneficial, could never ecome perniciou ..."

#### TO CORRESPONDENTS.

We are truly gratified in acknowledging the receipt, of several very interesting, and as we think, very valuable communications on the leading subject of our paper. Amongst others one from FRISBY TILGHMAN, Esq. of Washington County, with whose name and place of abode, the idea of rich land and skilful farmin is atways associated. His communication was made at our particular request, and gives a minute account of the produce of his farm, and the precise course of its cul-

e are favored also, under a late request, by that veteran Patriot, James H. M'Cullon, the Collector of this Port, with a communication of his experience, as to the cultivation, qualities and value, of several kinds of artificial grasses: and

We are very much pleased, in giving notice of the receipt of No. t, of a promised series of essays, on the raising of hedges, or live fences.

Agricola will accept our sincere acknowledgements, for taking up the subject of the state of Agriculture, iu the lower counties of Marylaod. The theme is a fruitful one, and we are glad to find it in such competen hands though we could not have supposed the writer could have found leisure, in the midst of professional business, to investigate this interesting subject so thoroughty, as be seems to have done.

The Rev. Mr. Whitefield arrived in this country, in the year 17.39-by an accidental transposition of a figure, it appears, by the article in our last, that his ar-

#### FROM SPAIN.

By the arrival of the schr. Native, at Boston, informa-C. Read, commander, arrived at Cadiz, the 14th April, in 18 days from Boston, with the Hon. Mr. Forsuth, our Minister on board. By the requisitions at Cadiz, all vessels from the United States, observe a quarantine of eight days, but this was not required of the Hornet, from motives of respect to Mr. Forsuth, and the general appearance of health among the crew. On the 15th, Mr. Forsyth landed under a salute of 17 guns, yards manned, &c. On the 16th the Hornet saluted the town with 21 guns, which were returned. His Excellency the Gov. General O'Donnell, " aited on Mr. Forsyth, and every attention and civility were shewn him. Mr. Forsyth, was to leave Cadiz on the 20th, for Madrid. Captain Goodwin has despatches for government.

The Spanish expedition to South America progressed very slowly for want of cash.

The United States ship of war John Adams, Com. O. H. PERRY, sailed on Monday evening for St. Thomas on

The Circuit Court of the United States, for the District of Columbia, commenced its session in this County, in the New Court Room, at the Capitol, on Monday. The Grand Jury having been sworn (John Laird, Esq. Foreman) the charge was delivered by Judge Morsell. Avoiding the trodden path of general instruction, to which all the Jury had by frequent attendance on the Court been familiarised, the Judge particularly called the attention of the Jury to the crimes of Duelling and Kidnapping, as demanding their interposition, and the severest visitation of the Law.

The Civil Docket is pretty large, but far below the stories which have been put in circulation. The suits by the Banks, particularly, are unexpectedly few in number, and small in amount. Nat. Int.

Hon. James Houston, Judge of the U. S. District Court, died at Chestertown, on Tuesday, aged about 50 years.

A Mr. Romer from the Liverpool Theatre, who made his first appearance on the New-York boards on Thursday evening last, put an end to his existence on the following day, by cutting his throat.

### Present prices of Country produce, in the Baltimore market.

Tobacco.-Since the old crop was sold off, after the war, there has never been, at one time, as much tobacco for sale in this market .- The mention of this fact, with a few actual sales within the tast week, giving names and places, witt enable the planter to form an idea of the state of the market -As to speculating about the state of the market in Europe;—the present posture and future prospect of affairs in our own country; the causes of our embarrassments, and the probability and means of relief—with a view to sagely predicting whether the article is likely to rise or fall, we beg leave to be excused-We have not the mercantile capacity, or experience for it A thousand shrewd prophecies might be made by the speculator, to shew that it would fall; and the Planter may fancy as many reasons why it may be expected to rise. Our province is with facts, differently collected, and honestly detailed.

The fine yellow Tobacco, of Frederick County, which has been setting for \$18, may be quoted at \$12 .- Some Tobacco made on the estate of the late Lloyd Dorsey, on Elk Ridge, sold yesterday morning for 5 a \$7 .-- Crop Pobacco, 3 horsheads, from Mrs. Reynolds' Calvert County, sold for 7 a \$8; some made by B. Essex, same ounty, for 5 5-3, second; and 7 5-8 crop.
Virginia Tobacco sold by J. P. Pteasants & Son, mid-

dling quality. \$7-first quality \$8-50.

Corn 50 cents-Wheat \$1 12 1-2-Rye 55 a 70-Oats 50 -Eggs, per doz. 18 cts-Butter, per lb. 31-Beef, best botcher's, 12 1.2—Mutton, 6 a 8—Veal, per quarter, from the wagons, 1 25 a 1-50—Potatnes, retail, 31 per bashel-Green Peas, per peck, 25-Hay and Straw, each 16 a \$18-Herrings, per barret, \$3, a little more than the cost of harrel and salt. Wool cards, 62 1-2-Cotton do. 62 I-2 a 75.

# PRICES CURRETT

AT BALTIMORE:

Carefully Revised and Corrected			
ARTICLES.	PER. R		RICES
BEEF, Northern mess	bbl.	17	1
No 1		15 13 50	
No 2	lb.	16	
Bacon,	10.	18	20
Butter, Ferkin	1	33	
Coffee, first quality, second do.		27	28
	1 1	27	
Cotton,		45	
No. 6 a 10,	1	46	50
No. 11 a 20,		53	80
No. 20 a 30,	1 1	80	1 20
Choeolate, No. 1,		28 28	
No. 2,		25	
No. 3,	box	20	22
Candles, mould,	DOX !	18	19
dipt,	1 1		carce
spermaceti,	ъ.	10	15
Cheese, American,		60	65
Feathers,	qtl.	3 50	
Fish, cod, dry herrings, Susquehannah,	bbl.		etail
mackarel, No. 1 a 3		9	12
shad, trimmed,	1	7 75	7 87
Flour, superfine,		5 50	6
fine,	bbl.	5	5 50
middlings,	1 1	4 50	5
rye,		4 a	4 28
Flaxseed, rough,		none.	
cleaned,	bush		
Flax,	lb.	do	3.1
Hides, dryed,	Į.	12	1:
Hogs lard.	Į.	12 25	3
Leather, soal,	m- 1	62 1-2	7
Molasses, Havana,	gal.	75	, '
New Orleans,	1	1 13	
sugar house,	gal.	1 50	
Oil, spermaceti,	bbl.	18 a	20
PORK, mess or 1st quality,	100	16 a	17
prime 2d do.	1	14 a	15
	ton	5	
Plaster, ground	bbl.	1 75	
Diag	βъ.	6	_
Spinits, Brandy, French, 4th pro	of gal.	2	8
peach, an pro	.0.	1 25	
apple, 1st pro	of	75	
Gin, Holland, 1st pro	of	1 50	ï
do. 4th pro	101	60	
do. N. England	1	1 50	
Rum, Jamaica, -	oof	75	
American, 1st pro		50	. 1
Whiskey, lst pro	- Ъ.	18	
Soap, American, white,	- 110.		9
do. brown,	- [	1	
Sugars, Havana, white,		14 5	
brown,	.	2:	5
loaf,	ъ.	2	
lump,	- bu		o
Salt, St. Ubes,		7	5 I
Shot, all sizes,	- lb.	1	2
TOBACCO, Virginia fat,	- cw		
do. middlings,	,	1	0
Rappahannock,		5	5
Kentucky, -	,		0 7
small twist, manufactured	l, lb.	1 -	5
pound do	-		0
TEAS, Bohea,	112		15 a
Souchong,	-  lb.		
Hyson Skin			75 a 25 a
Young Hyson, -	-		75 a
Imperial,		1 -	30
WOOL, Mermo, clean,	-		40
unwashed, -			
	- 1		65 35
crossed, clean, -			
unwashed -			
unwashed - common country, clean	, hed		37
unwashed -	shed		

# Miscellaneous Selections.

THE HAPPY LIFE OF A COUNTRY PARSON.

ARSON, these things in thy possessing, vetter than a bishop's hlessing: A wife that makes conserves; a steed That carries double when there's need; October store, and best Virginia, Tithe pig, and mortuary guinea; Gazettes sent gratis down, and frank'd, For which thy patron's weekly thank'd; A large concordance, bound long since; Sermons to Charles the First, when prince: A Chronicle of ancient standing; A chrysostom to smooth-thy band in : The Polyglot-three parts-my text, Howbert,-likewise - now to my next . Lo here the Septuagint,—and Paul, To sum the whole,—the close of all.

He that has these, may pass his life, Drink with the squire, and kiss his wife; On Sundays preach and eat his fill; And fast on Fridays-if he will; Toast church and queen; explain the news; Talk with church wardens about pews; Pray heartily for some new gift, And slinke his head at Doctor Swift.

## GUNPOWDER AND BRANDY.

An office in the government of atan, being once upon a time vacant, " the prince of th' power of the air," convened a counsel, when it wa proposed, that on the trial of the skill and abilities of two demons, he who caused the most misery on the earth and brought the greatest number of morial, to the regions of despair, should fill the vacant office and be first in authority.

One went in the shape of Gunpowder, the other in that of brandy, rum, gin, & c. the forme: was an open enemy and roared with a terrible nois . This made the folks to be afraid, and put them on their guard. But the other passed as a friend and a physician, pretended to make them strong and healthy, was at all their merry makings, frolicks and entertal ments. By these means he caused them to be off their guard; and at length to become his most willing servants, and that too, "for the wages of death." Under the "notion" of helping digestion, comforting the spirits, and cheering the heart, he 60 produced the direct contrary effects. - And, having insensibly thrown great numbers into a fatal decay, he was found to people hell and the grave so fast, as to merit the office, in preference to him who went arrang the people in the shape of gunpowder.

INCREASE OF FORGERIES IN ENGLAND. The recent investigations of this subject, has brought to light some curious testimony; and, though it was wrung with difficulty from the hands of the Bank Directors, the necessity of finding a remedy commelled them, at last to disclose the extent of the eval. In appears, that from 1783 to 1797, there were only four persons prosecuted for forging, or possessing forged 50 notes of the banks; three of whom were capitally convicted. In the latter year, parliament assed the two laws, which authorised the bank to su-pe d payment in 75 specie, and to issue notes under five p nds; at once permitting the bank to send forth notes of the old de nomination, without the slightest restraint, and inviting it to pour out floods of a less denomina on and of more 150 common use. The consequence was, ha' the temptations and the chances of forge y were car ed beyond calculation, and it is stated, in an office I return, that. from 1797 to 1818, nine hundred and ninety eight ( within two of a thousand) persons were prosecuted for this of-fence; three hundred and thirteen of whom were capitally convicted, five hundred and twenty-one convicted of having forged notes in their possession, and the rest acquitted! For the eight years preceding 1797, there was not a single Prosecution; for the eight years subse-

quent, there were more than four hundred. In 1817, there were stopped at the bank, 30,000 forged notes, of one and two pounds; 900 of fire pounds; 50 of ten; and 2 of twenty. The greater part of the mischief appears to arise from the small bills; but the permission to innead libitum, must unquestionably have its share in shedding the blood of so many human beings.

The "Society for the encouragement of industry in France," has proposed the following prizes for the year 1819; For the application of the steam engine to printing presses, 2,000 francs; for the fabrication of a new species of economical carpet, 2,000 frs; for the fabrication of an indelible green color preferable to the green in use, 2,000 francs; for the discovery of the best process of pounding colours in oil and water to the decree of consistency required by artists, 500 frs; for the manufacture of animal charcoal from other substances than benes, and by a process different from that employed for preparing Prussiao blue, 2,000 frs; for the manufacture of isinglass, 2,000 frs; for the discovery of a vegetable substance, either natural or prepared which will serve as a complete substance for lbe leaves of the mulberry in the rearing of silk-worms, 2,000 francs.

Carelessness-Negligent masters or mistresses are considered as lawful prey by their domestics; and those who are proverbially easy in the management of pecuniary and economical concerns, are at once cheated and despised for a disposition which however it may engage the affection and esteem of candid and enlightened characters) seldom fails to excite the rapacity of those who are possessed of

That low cunning, which in fools supplies, And amply too, the place of being wise.

A young divine on his examination before the archbishop of York, for holv orders, was asked by his grace, who was the Mediator between God and man? to which he immediately answered, "The archbishop of Cauterbury.

The captain of a West-Indiaman wished to buy a horse. After the purchase was made, the captain said, "Well, now the horse is mine pray tell me candidly whether he has any faults, and what they are." "What do you mean to do with him?" asked the other. "Why to take him to sea," answered the captain. "Then I will be caudid," replied the dealer; "he may go very well at sea; but on laud he cannot go at all, or I would not have sold him. "

A dispute arising in a public house between two men respecting a point of law, they agreed to refer it to a thir!, who recommended them to the decision of the landlord, who, he said, was no doubt well versed in those matters, having been long employed at the bar.

FROM AN ENGLISH PAPER.

Prince Gustavus, son of the ex-king of Sweden, after completing his academical studies at Heidelberg, in the ensuing summer, is to come to this country, to finish his education at Oxford and Edinburgh.

The lords of the treasury have given directions to the commissioners of the customs, for the immediate dismissal of 81 tide surveyors and waiters, who have been proved to have taken fees contrary to the act

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EBENEZER FRENCH, PRINTER.

# AMERICAN FARMER.

# RUBAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

" O fortunotos nimium sua si bona norint "Agricolas." . . . . Virg.

Vol I.

## BALTIMORE, FRIDAY, JUNE 18, 1819.

Num. 12.

#### AGRICULTURE.

From the Memoirs of the Philadelphia Agricultural Society.

## Notices for a Young Farmer,

Particularly one on Worn Lands, &c. &c.

WITH NOTES BY THE EDITOR OF THE AMERICAN FARMER.

[Continued from No. 11. page 82.]

Steeps. Mildew and Smut. Stunted or Sedge Wheat.

XV. STEEPS are highly recommended, as guards against the maladies of grain; and for invigorating the first the efforts of the plant. The Flomish steep of blue vitriol, or copperas, is said to destroy the parasitical plant adhering to the seed, and deemed the cause of mildew and smut. See Sir J. Sinclair's Tour through Flanders, 1815. But this. or any other, does not always succeed; and smutty grain washed in pure water, is often rendered fit for sowing, without danger of a smutty crop. There are so many, and so various opinions, on the causes of mildew and smut, that it is difficult to form a decisive conclusion See, (among others,) 2d vol. Philadelphia Memoirs, 104, and in the 14th vol. of he Bath Society Papers, 54, &c. see article 3d, n which there is an ingenious and elaborate discusion on the diseases of wheat. Good farming, and well manured ground, so as to ripen the grain early, seem to be the best securities. Spring wheat nost commonly escapes mildew and smut; and there re kinds quite as good as winter grain. Such hould be sought for, and cultivated. In England, nd other parts of Europe, and in the northern parts four country, summer wheat is raised to great adrantage. Whether or not it would escape the fly s doubtful; for flies have been found in plenty in ummer barley. (a)

It s not yet agreed, what kinds of wheats best withstand injuries from the Hossian Fly. The yetow bearded and other wheats with solid straw or trong stems, (the solid stemmed wheats being dei nated by the appeliation of cane or cone wheats) re deemed the most efficacious. Farmers should end their sedulous attention to the selection of uch wheats. Good farming, manure, and reasonhly late sowing, are certainly, the best securities. But too late seeding is unsale; for the spring-brood f llies attack the tend-r plants of every la e sown thear, not sufficiently forward to be capable of reisting this for, with the like destructive effect, we sperience in spring barley; appearing to prefer, or this purpose, plants in the early stages of their rowth. It is, most probably, a native here. It ever entirely leaves us; though it appears, at iregu ar periods, in numbers less scourging than at lines when its tavages are more conspicuously detructive. It seems to make movements of its main ody from North and East, (where it was first pereived,) to South; leaving always on its march, de-

importation, for that appellation was bestowed during our revolutionary extitements, when every thing we disliked was terined Hessian. Entomologists class it among the Tipulæ, whereof there are more than, 120 varieties. In Hesse, they have not this vermin, to annoy their crops. (b)

Steeping your seed wheat, is attended with little trouble or expense; and is assuredly, worth the trial, as it has so many, and such respectable, advocates. Avoid, however, steeps too strong, as they sometimes prevent the seed shooting; or produce a premature and suckly germination, especially if the seed be not well rinsed or washed. You need be at no loss for a choice, as so many receipts are to be found in books of agricultural authority, for steeps of various compositions.

The stunted or sedge wheat, may, possibly, be the consequence of seed grain being infected by disease, or inlested by insects. It would be worth the experiment, to try the effects of steeps. Changing the seed, to a kind entirely different from that usually sown, has been found to be a guard against this serious and increasing evil. Lime, and strong lime water, often have beneficial effects on diseased seed wheat.

Carefulness in raising and expending Food for Farm Stock, recommended; and modes of treating several kinds of food and provender. Chaffing Hay, Straw, &c. Steaming Potatoes, Scarcity Root. Boiling or scalding Provender. Culture of Potatoes previously to a Wheat crop; different opinions concerning it. Potatoes said to grow best on boggy grounds. Veterinary knowledge, and Weights and Measures; their uses even in the orderly and more beneficially feeding of stock.

XVI. Be particularly careful in expending, as you should be provident in raising, every species of PROVENDER for your stock of horses, cattle, and sheep. A variety of food, and an orderly distribution of it, are more promotive of health and vigour in our domestic animals, than a lavish expenditure of any one species. Such as require previous preparation, should have it bestowed, both for profit and economy. Cur or chaff your hay, straw, corn tops and blades, and even your stalks, with a powerful Straw Cutter, and you will save a great proportion, which is otherwise wasted, or passed through the animal, without contributing to its nourishment. One hushel of chaffed hay at a mess, given in a trough, three times in twenty four hours, is sufficient for an horse, ox, or cow. A bushel of chaffed hay, lightly pressed, weighs from 5 to 5% pounds. An horse, or horned heast, thrives more on 15 lb. thus given, than on 24 or 25 lb. as commonly expended, (including waste,) in the usual mode of feeding in racks; to which troughs, properly constructed, are far preferable. This plactice has been now fairly tested by experience; and the result accurately proved. This, and other great improvements in feeding their domestic animals, nave been forced on the people of Europe by necessity. Salt your clover and other succulent as well

keep us on our guard. Its name do s not prove it- [trin ent. More than a peck to a ton is superfluous, Italf that quantity is often sufficient. Ten or fifteen pounds is usuall, an ample allowance. Steaming Potatoes has been long practised .- Boiling r scalding provender commonly given dry, is found to be highly beneficial. The Turnip culture. on an extensive scale, succeeds better there, than it does among us. The Scarcity root is there cultivated extensively, for dairy cows and ewes in milk; also for fatting cattle, with oil cake, occasionally, as a change It supplies succulent food, in the season when such food is the most scarce. This root thrives well in our country, and should he more generally attended to, for swine and cattle particularly For the latter, it is important at all seasons; its leaves in summer being as valuable, as its roots in winter or spring. Carrots may also be profitably cultivated. They are not only highly nutritious, but preventatives against some diseases, and remedi s for others, (asthmatic maladies particularly,) in horses or cattle. High prices, nd scarcity of bread stuffs, will compel us to imitate European examples, in substituting escelent roots for grain, in feeding our live stock. Of Potatoes we know so much, both as to their culture and uses, that it seems unnecessary to mention what is commonly practised. It has been the opinion of many, for a long time past, that they are exhausting; and that unless additional manure's bestowed on the land on which wheat is to follow them, the wheat crop will not be abundant. This opinion is not confined to our country. Many telieve potatoes are best in dry soils; yet it is asserted by an intelligent writer, in England, (see Bah Papers, vol. 14, page 47.) alter actual experiment for 16 years, that " potatoes will never be nealy, if not grown in toterably moist ground:" and a drained hoggy earth is preferred to all oners. In this kind of earth, the Irish potatoes are generally cultivated. It is fortunate, that this root will grow in almost any kind of soil, and the advocates for different opinions may respectively includge in taking their ova course. Potatoes are generally planted too late. harty planting admits of the crop being gathered in tune for sowing wheat, by those approving that practice. Contrary to common opinion, it is now said by some practical agriculturists, that young, or unripe seed potatoes, are most productive.

Teach yourself, by reading and observation, at least the outlines of VETERINARY KNOWLEDGE; and promote its encouragement. This will instruct you in the nest and most wholesome modes of leeding, as well as administering innocent preventatives and remedies. Do not depend o . chartarans, or servants, for what a little attention on your part might avoid of remedy. Never neglect frequent visits to your farm yard and stables. Good servants are encouraged, and bad ones defected, by such atte tous to your own affairs.

Keeping accurate and lawful Weights AND MEASURES, is not only demanded by integrity in achments or stragglers, sufficiently monitory to as coarse nay. But over salting diminishes the nu- deanns, but it teaches a habit of looking into the profit and economy. When this babit is fixed, you will do nothing at random: but symmetry and ealeu-lation will appear in all your concerns: and success lation will appear in all your concerns: and success will generally crown endeavours planned agreeably even is said to be a test of the goodness of mait; as those to well ascertained data, and not undertaken with grains, which are not perfectly germinated, will swim thoughtless conjecture and hazardons guess work, with one end upwards, I suppose the root end; and those which are perfectly germinated, will swim those which are perfectly germinated swim on their will not only save your provender, by its orderly water. whilst the sound ungerminated barley sinks in distribution, but, frequently, the lives of animals distribution, but, frequently, the lives of animals, it is therefore a proper criterion of good seed wheat too often starved by nigo rdliness or neglect, or to cast it into salt and water, just so saline as to float an garged and destroyed by profusion. If it he true, egg; as the more salt is dissolved in the water, the heaas it is, that "the master's eye makes the horse fat:" it is equally so, that the master's eye preventthe horse from being pampered, wanton, pursive. bloated, foundered, and finally, wind-broken and blind.

When any of your live stock die of disease, or invisible easualty, have them opened, for discovery

of the cause, and future instruction.

stances. It has been favorably represented by some who have tried it; and it merits farther experiment. If proper preparation be made, so that a certain specession of group field could be something the standard of the stan state of ferminatation : the seeds of weeds and animals. and other publications on the subject.

frequently moved; and the dung of cattle compost- dergone but little alteration. They should not be placed in declining situations, from whence the dung and urine are wastefully washed away. Moveable pens for sheep, have them the coarse tussocks of sour grass, which remain in great advantages. They are safe (in proper pens) moist pastuaces in the winter, or lastly, to max finely cut from dogs; and their dung fertilizes beyond any straw with them "—Darwin's Pytologia. other. If for health and convenience they must range in the day, penning at nights, unless flocked mals of every description. Some prefer rock sait for sheep to liek at their pleasure.

[ To be continued. ]

minute data is of your affairs, highly conductive to seeds of rye-grass and of clover may be detected by

vier it becomes; and hence none but quite sound gra ns of wheat will sink in this brine; and that which swims is properly rejected. This rejection of the light grains by steeping wheat in brine is probably of greater consequence to the ensuing crop, than the adhesion of any salt to the grain, which has been believed to destroy the eggs of insects supposed to adhere to it, or to fertilize he soil.

The weight of a given measure of corn will also with considerable certainty discover the quantity of husk or Feeding, in stalls, or pens, on green forage, bran contained in it, compared to the quantity of flour; which is called soiling, has not been sufficiently as that grain, which is cut too early, or which is otherpracticed here, for us to form decisive opinions of wise not quite ripe, as happens in wet seasons, shrinks in its practicability and preference, under our circum-the barn or granary, and becomes wrinked, and has thus

certain succession of green food could be ensured; ther peas and beans, or oats, are preferable in respect the practice, in many situations where labour is at to economy as provender for horses. A strike or push-to economy and and droughts do not interrupt the supplies, bushed of peas and beans perhaps fifty pounds; and as appears highly commendable, on the score of savithe skin of peas and beans perhaps fifty pounds; and as appears highly commendable, by expending it at our pleasures. by our summer food, by expending it at our plea-that of oats, I suppose there may be at least fifteen sue, in place of suffering cattle, at their will, carepounds of flour more in a strike of peas and beans than
lessly to browze over and waste much pasture. It
saves the expense of inclosures, which, in our mode
of dividing farms, essential in our present arrange,
ments, are very costly, and adds to our stores of
the peas and beans generally supply a cheaper provenmanure, which can be applied in a less advanced der for horses than oats, as well as for other domestic

But as the flour of peas and beans is more oily, I be and increasing, by the frequent application of the lieve, than that of oats, it may in general be somewhat and increasing, by the frequent application of the more difficult of digestion; hence when a horse has fasely the England, and other parts of Europe ken a stomach full of peas and beans alone, he may be they grow the Chicory, very profitably, for soil-less active for an hour or two, as his strength will be ing, and make much use of the spring and winter more employed in the digestion of them, than when he Wetch. No extensive experiments have been made has taken a stomach full of oats. According to the ex here, in the culture of these plants; and it would be periment of a German physician, who gave to two dogs here, in the culture of these plants; and it would be permitted of a certain physical and it would be which had been kept a day fasting, a large quantity of desirable, that sume spirited agriculturist would give them a fair trial. Instruction in their cultiva-hunted him with great activity for three or four hours, and tion, can be readily obtained, by consulting British left the other by the fire. An emetic was then given to each of them, and the food of the sleeping dog was found If eattle or sheep are penned, the pens should be perfectly digested, whilst that of the hunted one had un-

Hence it may be found advisable to mix bran of wheat with the peas and beans, a food of less nutriment, but of easier digestion; or to let the horses eat before or after

(b) Since the above was in type, a scientific description of the Hessian fly, and of a parasitic insect which teeds on it, has appeared. It is written by Mr Thomas Say ; (and well guarded) on an extensive scale, is essen-and is published in the third number of the Journal of tially necessary. Multiply your pens, rather than the Academy of Natural Sciences of Philadelphia. He crowd too many in one fuld. Be not sparing of a has given the insect the name of Cecidomya Destructor; reasonable allowance of salt, to your domestic ant- and considers it specifically distinct from the Tipule mals of every description. Some prefer rock sait witici of Kirby, and entirely unknown in Europe, Mr Say describes the parasitic insect in the larve of the Hessian fly, scientifly. Its length, one tenth of an inch-He styles it the Coraphon, and classes it with the tribe of insects called Ichneumons. It deposits, according to the manner of its tribe, its eggs in the bodies (a) To determine the goodness of seeds, the weighing a of larra, (catterpilars,) and becomes perfect by the given measure of them may generally be esteemed a destruction of the larva of the Hessian fly, "Protected

prevents the total loss of our wheat crops, by restrain ing the increase of the cecidomia, within certain bounds He says it is often mistaken for the Hessian fly, by tho who see it evolve from the pupa of that fly. And fligh of the Ceraphon are erroneously taken for Hessian flies.

The Ichneumons are nature's scavengers, destined destroy the vermin which would otherwise overrun the earth. They breed in catterfullars, corn-grubs, and otherwise over the carter of the corn-grubs, and otherwise over the catter of t such reptiles, which perish in myriads, in consequent When they are perceived coming out of the larve other insects, it is inconsiderately alleged, that t corn grubs, &c. turn into flies It would be desiral that some in turalist would discover the parent of t corn-grub; there being no absolute certainty, but ma various opinions on that subject.

It is said that a parisitic insect is found in the incisio made by locusts in the branches of trees. No doubt Ichneumon, placed there for destruction of the eggs of t

locusts, to prevent their unbounded increase.

# wwwww Agricultural Letters to the Editor

Rockland, (Washington Co.) June 1st. 1819.

DEAR SIR,

I should have made my acknowledgments I your late friendly communication, and replied soo er to your letter, but for a lame hand which d prived me of the use of my pen. I feel sensible th every aid should be rendered by the agricultural pa of the community, in not only disseminating vo truly useful paper, but also by furnishing remar which may have a tendency to throw light on t subject. In complying with your request, to gi a statement of the product of the farm I reside of I am induced, by a desire to gratify vou, and with hope, that others may be led to offer suggestic and experiments more useful; confident, that w proper management and more personal attention i

own may be greatly surpassed. The farm contains, by actual measurement, t hundred and sixty acres, including wood land, roa homestead and waste ground. Every field and on the farm is accurately surveyed, which I de absolutely necessary, for here suffer me to rema that though I have often heard of fields produc 40 or 50 bushels of wheat to the acre, I have nev from twenty year's experience, been able to ceed thirty bushels per acre, from a field of 36 acr though my neighbours have in some instances give me as high as 40. I am led therefore, to belie that those who are particular in surveying th fields, and ascertaining accurately the number bushels per acre, have never, from a field of acres, made 35 bushels per acre. The clear land on my farm, is divided and cultivated, in following manner:-I have 7 fields of 27 ac each, on paper, (the fences will take off a litt and 5 lots of different sizes, from 1 1-2 to 7 aci the 5 lots together making 25 acres, including grounds about my house. Two of the above fie are cultivated annually, in wheat, clover hay; field in corn, one half of a field in rye, and one ! in oats, this takes 4 of the 7 fields, and leaves in fields in clover for pasture. My wood land is inc ed separately, which makes a fourth pasture fit until harvest. My 5 lots furnish my hay. Oats; rye always succeed corn, and my fields of small gra

commenced a different course, by keeping up one my cover helds for soiling. This mode, I alw sighly approved, though I could not prevail on I

are sown in clover, every spring. This has been

general plan for 7 or 8 years. I have the present y

given measure of mean may generally be esteemed addestruction of the tarba of the Hessian my, "Protected angles are put into cold water, those which are less perfect are hable to change, and appears in the perfect state about the swim, and the sound ones to sink; thus the imperfect alter end of June. It seems probable that this insect

in to our better judgment. So far my trial leads to rejoice at the change, and I am fully coniced, that one of my fields of : 7 acres well see th clover, will soil 19 head of steers afford me acres for Ruta Baga. I acre for Potatoes, and ve me 8 or to acres of clover, to cut for hay. ch is my present impression. In preparing my n ground, it is well ploughed in the fall and rowed the same way we ploughed it in the 7000 wt. Pork, nth of March or April following, all the manure offect on my farm is put on my corn grout de Retwe not and 300 head of Sheep kept, manure is ploughed under as fast as carried out. the ground then harrowed, after which it is laid all rakes dress the hills of corn I then sprinkle when brought into the firm yed. ut a teaspoonful of plaster on each hill; the ugh is then used, throwing the furrow from the n, my rakes still employ to uncover the coin, our next process is to return the furrow to the one. n and plough out the middles. When the corn bout knee high, we add half a bushel of plaster he acre. in broad cast; a double shovel plough, small harrow wil then be sufficient to keep the und in order. I pay very great attention to my n yard, which is dog out sloping from the outlanaged, and w thout difficulty turned under by large a surface of the manure, the had effects of ch must be obvious to every far ver, in the small legree conversant with the subject. In cutting anure and loading the wagons, the collection ater from the manure, is sometimes so great, render it necessary for my hands to use planks and on in order to keep themselves dry. ure, thus completely siturated, with the water sate to ploug' under. So sonn as my farm is cleated of manure, in the spring of the year mmence making my crop of manure, for the eeding ear, by drawing into the yard the co n s left the preceding winter; my cattle, are kept in the yard, where they remain until the lle of May, and are fed on the 'alance of heat v which is corefully preserved for them, and lay a good foundation against the month of Noper following, at which period my stoc- cattle chased during the month of Sept. and Oct. brought into the farm yard, to remain until g; at the same time, I begin to draw in my stalks, on which and my wheat straw, the cate supported during t e winter. By this mode. e out every spring, from my farm yard, from field receives once in 7 yeas, which with plas-

yard is 100 teet long, by 60 eet wide and enclos-less, the winter whilat became also very difficult to ed on three sides, generally with a shed

1100 bushels of Wheat,

1100 do. Corn,

100 do. O ts. 300 do. Ryc.

20 head grass fed Beef,

winter about 40 he d black cattle,

15 do. H rs s,

time of planting is between the 1st and 15th of horses milch cows work oxen and sheep, have hay been the price, but one thing I recollect, that my y. So snon as the corn is up. I run a fallow and c rn I dder; my stock cattle, live on wheat calculation brought out a loss on the side of the row over the rows of corn, and my hands with straw and what they pick from the corn staks, wheat of from 15 to 18 d llars, by sowing the

Respectful y. your most ohedient,

F TILGHMAN.

· I can give you assurances, that the average is a low

# Wheat of May.

TO THE EDITOR OF THE AMERICAN FARMER. had a beautiful little crop in a part of the same field ness, is more the consideration of the mill r. sown with wi ter wheat; on moderately elevated ground, it ripened kindly, with a bright straw. The other characteristic description is well given in your paper, as translated from the French author. ping from the wagons, when loaded, is in a the time of maturing, exactly the same the French author speaks of the flour being darker than the antumnal kind; I may add the reason why it is so, (having long been accustomed to grinding grain.) The outer coat, that appears bran when grou d. is not so adhi sive, and will not bear the operation of the mil stones wi hout crumbling in a pulverised state and becomes so mixed with the flour in gr ndmg, that t'e losf when baked, has a velow rich looking brown c stais also a good wholesome bread like what the millers call ship-stuff but of a more sandy consistence; the flour also, more of the lively feel; it grinds more like balley, after being huling) the oran of which, is very much the same.

Now as to he value of the grain. At the time of

ms, and frequently pursue them in direct opposit fil ready for the burcher, which, from present ap femild be sown with the spring wheat, as it was then earan es, will be by the 1st of August. My farm cailed. I sowed several years with different sucr ise, from various causes. The insect, or Hessian The p oduct of the above \* larm on an average, is By, anacked the winter crop i : 1791. and almost wholly destroyed the wheat, with us that year; the year foll wing I procured one bushel of seed of the spring wheat, having not raised any the year before, the seed cost two dollar-; I s wed a piece of the best of my barley ground, and put all in the same day. 'ly barley produced from 20 to 25 bushels, to the bushel sown; my wheat, I think, if my recollection is correct, p oduced about four bushes and that very I ght and shrivelled; barley that year sold at for planting by a single furrow 4 feet each way land have always an a undance of provender. Mylone dollar 25 cts per bushel; wheat I do not recolbushel of wheat, instead of barley From thence forward, I never had an inclination to cultivate any more, and I found a corresponding sentiment. prevailing amongst all who had cultivated the spring wheat. My impression is, that it was generally better the first year or two, but from the decline of sowing it I am led to believe, that I was not alone unsuccessful.

he description given by the late publication is Observing in your paper of the 4th inst, the de-so exactly the same, as my recollection brings into eripti n of a kind of wheat called the "WH AT OF view concerning the growth, the beard, and every edges to the centre, and forms a basin of about MAY," said to have been brought from Egypt originate that have no hesitation in saying, it is the 5 feet deep in the centre, which retains the only, and some years post, been cultivated in Bel-May Wheat alluded to. The beard was very er. In taking out my manure, my hands begin gium. I have no reason to doubt the fact. Yet, much like our present red chaff bearded winter me side of the farm yard and with grubbing hoes. It think it nothing foreign from the subject to let wheat, which is, according to my observation, the le very sharp and about six inches wide, the ma the farmers know that this ame species of wheat best for flour of any bearded grain, ever introduce is cut through to the bottom; the corn stalks has been cu tivated in some part of Delawage and ed. M. opinion has generally settled into a bethus cut (6 or 8 inches in led th) are easi Pernsylvania, many years back. My reason for lief, that a beard, on any kind of grain, does not saying the sa e. is from the description bring so indicate the fairest product of flour, but otherwise; plough. We also by this mode, avoid exposing minutely the character, of what I with many others and as I have touch d the subject, perhaps it may cultivated, about the year 1785, and from that till bring out some ob cryations on that head, from the 1793 or 94. My last experiment settled my opin- experienced; yet as there are other considerations ion decidedly on its merits. When first introduced, I which come into the view of the cultivator the fair-

Respectfully, from,

CALEB KIRK.

Brandywine, 8th, 6th mo. 1819.

# Irrigation-The Work of Maypu.

In our last, we referred to the Report of T. BLAND Esq. respecting Chile, to show how well the benefits of Irrigation are understood, and of what vast importance it is to to the Agriculture of that country; and we took occasion to mention the great Work of Maupu, constructed by the native Indians, but had not room to insert the following description of it, which we

find in page 95 of his Report :-

'The nineteenth item is for defraying the expense of completing the valuable work or canal of Maypu I The refuse holted out instead of bran, is more have before described the vast importance of water to the valleys of Chile, south of the Maule; some of which cannot be watered at all by any artificial means, others have not an abundant supply; and in none is the water so carefully and judiciously distributed as it ought to be. led or divested of the ofter coat, (previous to grind-One of the most valuable and interesting of the remaining monuments of tudian ingenuity and improvement in that country is the Salta del Auga, about five miles to to 300 large wagon loads of good manure, in is introduction into my neighbourhood it was part of the city of Santiago where a great state for my corn ground. This dressing thought a valuable acquisition, as settlers may brought by means of a canal, through a gap in the ridge ing to the new countries, might obtain a cro in which terminates at and immediately overlooks the city. od co-er, I find sufficient. But if soiling will about three months a ter sow g, rather than from this gap standing on the margin of the bidian canal, er my present expectations, my quality of manual nine months for the return from the winter and nearly on a level with the valley beling, you have will be greatly increased, as my cattle are grain; this gave it a credit, together with the ad- under your view a part of the city, and the fairest porn my form yard, never having been out (except variage of supplying the place of a winter crop, the gap, is, one part of it, read to wind along the nounter.) since last fall, nor will they leave it, unbeing killed by severity of the season; some ground

south, and the surplus is suffered to hap mimediately down its steep side, from eight hundred to a thousand feet almost perpendicular; whence the work takes its name, of the leap of the water. The water of the south. ern canal turns a grist null on its way down; and all, after reaching the plain, is poured over it in many d. rections, so as to irrigate the various vineyards, quintas, gardens, and farms, which are thus rendered as onishingly fru tful. The Spania ds say, that the Salta del Agua remains now as the savages left it, more than two centuries and a half ago, without any alteration, and with little repairs. The river Mapocho, a part of whose waters had been thus turned in so useful a direction by the Indians, after passing the city of Santiago, crosses the valley in an casterly direction; then pursuing its course south along the foot of the opposite ridge, sinks under it, and rising again near Francisco del Monte, harries it into the Maypu, which it finds above Mellipilla, after that river had taken leave of the principal cordillers, about twenty miles south of Santiago, and made its way directly east over the valley. Between these two rivers, on a dry swell of the plain, about ten miles south-east of Santiago, the famous battle or Maypu was fought. And this portion of the plants tay so high for many thousands of acres in extent, that it could not be watered from the small canals of the Mapocho; and therefore, was only used as pasture ground. It is intended, by the work of Maypu, to bring the waters of that river along the foot of the mountain in a canal, ternanating at the Mapocho, above the city of Santiago, so as to water and render fit for cultivation, all these plains, which, anciently as well as lately, have been so celebr. ed Such are the works of a people, whether of abouginal, or of foreign descent, who really own a country, and govern and manage it for themselves -The nature of the two last items of expenditure in this account, need no explanation.

A method of taking the tioney without destroying the Bees.

The common practice of killing the bees, in order to obtain the honey, few can witness without some little compunction; and as there is a very simple method of effecting the object, without any injury to this most interesting little animal, which, on the score of interest, as well as humanity, claims regard, I beg leave to communicate it through your paper, should you deem it worthy a place in it.

In the evening, when the bees have retired, take the hive gently from its stand, and having spread a table cloth on the ground, set the hive on it, placing something under to raise it three or four inches-then draw up the corners of the cloth and fasten them tight around the middle of the hive, leaving it so loose below, that the bees will have sufficient room to remain between it and the hive -then raise the hid of the hive a little and blow in the smoke from a cigar, and a few puffs of which, as it is very disagreeable, will drive them down; contime raising the lid gradually, blowing in the smoke all around, in a few minutes it will be found that they have all gone out of the hive. You may then take off the lid and cut away as much of the honey as you think proper. If the operation be performed in the bebe time enough to provide a sufficiency for their support during the winter. As soon as you have taken the honey, put on the lid, loosen the cloth and spread it out, and in an hour or two the bees will have returned in-

sometimes practised of driving the bees into anoter hive, as you get all the honey, and moreover the new comb which is still empty, and the young bees not yet out of the cells are preserved-there is also danger in driving, of their not liking their new habitation, and in that case of sallying out and making war upon their neighbours. The above method has frequently been practised by myself and others, and have always found it to do well. AMATOR MÉLLIS.

Washington, June 8, 1819

The quantity of squared timber exported from the Betisa province of New-Brenswick in 1118 was 208,591 tons—considerable more than in 1817.

#### INTERESTING EXTRACTS.

Continued. No. 2 ... Athenian Agriculture . Abbe Barthelemy's Travels of . Inacharsis.

"I had often passed a considerable time in different country houses, and had frequently traversed Attica. I shall here collect the principal remarks which I made during these excursions.

The fields are separated from each other by hedg es or by walls. By a wise regulation observed in Attica, such lands as are mortgaged for the repay ment of money are pointed out by small columns bearing an inscription which records the obligations contracted with a creditor. Similar columns plaeed before the houses that are pledged in like manner make them known to every one, and the leader need be under no fear that he should be in ured by any sceret contracts.

The possessor of a field may not dig a well, or build a house, or a wall in it, except at a certain distance prescribed by law, from the field of his neighbour: neither is he permitted to turn aside the waters which descend from the hills that surround his land, over his neig bours ground; but he may turn them into the public road, and the proprietors of the adjacent fields must defend their lands from them. In certain places the rain water is received in canals, which convey it to a great distance.

Appolodorus had a considerable estate near Eleusis, to which he took me with him. The fields were covered with ripened corn, and slaves reaping the authors of the benefits bestowed on man, it with the sickle, while young children gathered the falling ears, and gave them to those who bound them up in sheaves.

They had begun their work at the dawn of day. and the whole family shared in these rural labours In a corner of the field, beneath the shade of a great tree, some men were preparing the provisions wo men were boiling lentils, and pouring meal into ves sels full of boiling water, for the dinner of the reapers, who animated each other to their labour by songs with which the fields resounded.

O bounteous Ceres! with indulgent smile, Survey and prosper this our rustic toil: Ye joyous reapers, clear the yellow plain, And to the north expose the swelling grain. The lark awakes; your sharpen'd sickles wield, Nor quit, till he retires to rest, the field.

Other couplets expressed an envy of the happy condition of the frog, who has always plenty of drink; in others, jokes were passed on the management of the inspector of the slaves, and the workmen advised to tread the corn at noon, because then to join in them ginning of July, you may take nearly all, as there will the grain may be more easily separated from the husks in which it is inclosed.

The sheaves, when conveyed to the threshing floor, are disposed curcularly and in layers One of to the hive. It may then be replaced on the stand, and the labourers places himself in the middle of them, on the following day they will be found at work as usual. holding in one hand a whip, and in the other a bri This method is very simple, and preferable to that dle, with which he guides the oxen, horses, or mules, which he makes to walk, or troc round him of his companions turn the straw, and place it under the feet of the animals, till it is entirely broken others throw handfulls into the air, when a brisk gale, which commonly rises about that time, wafts the chaff to a little distance. while the grain falls directly down, and is gathered up and put into earth-

Some months after, we again visited the farm of Apoll storus. The vintagers were g thering the grapes from the vines, which were supported by

props Boys and gerls filled wick r baskets wit them, and carried them to the wine press. Befor they are pressed some farmers cause vine-branche loaded with grapes to be blought home. They ex pose them to the sun for ten days, and keep ther. in the shade for five days more

Some keep their wine in casks, others in leather bottles, or in earthen vessels

While the vintage was pressing, we heard wit much pleasure the songs of the wine press; for s they are called. We had also heard others durin the d nners of the vintagers, and in the different ir tervals of the day, which were accompanied wit danting

he harvest and the vintage conclude with fest vals celebrated with all those rapid emotions of mirt which plenty produces and which are diversifie according to the nature of the object. Corn bein considered as the bounty of a goddess who has provided for our necessities, and wine as the gift of god solicitous to increase our pleasures, the grat tude manifested to Ceres exhibits itself in a live but decently attempered joy, while that to Bacchi riots in all the transports of delirium.

Sacrifices are likewise offered in seed-time at hay varvest. At the season for gathering oliv and other fruits, they also present on the altar to first they gather, as gifts received from heaven. The G eeks have felt that on these occasions the heart should expand and pay grateful homage

Besides these general festivals each town at district of ttica has its particular ones; in which though there is less magnificence there is mo mirth for the inhabitants of the country are una quainted with fictitious joy. Their whole soul in if sis itself without disguise in the tustic shows a innocent games which assemble them together have fr quently seen a number o' them collect round some leathern bottles, filled with wine, a oiled on the outside Some young persons hopp over these bottles, and by their frequent falls, o casioned loud laughter among the by-standers. Close to these were children jumping after each of er on one leg; others playing at even or odd, a ou ers at blindman's buff. Sometimes a line draon the ground divided them into two parties. a they played at day or night \* The party whi had lost ran away, and the others pursued them overtake and make them prisoners. These amu ments are only in use among the clildren in t city, but in the country, grown persons do not blt

Euthymenes, one of our friends had always re ed for the management of his affairs in the coun on the vigilance and fidelity of a slave whom he l placed over the others. Convinced, at length, t the eve of a master is much more discerning Il that of a steward, he determined to retire to country-house, situate in the village or borough charnæ, at the distance of sixty stadia from A

We paid him a visit there some years after His health which had formerly been in a derlin state, was re-established. His wife and child; partook and increased his happiness Our l said, he to us, is active, but not agitated; we unacquainted with disgust or weariness, and we joy without alloy the felicity of the present monic

This game resembles that of cross or pile.

† About two leagues and a quarter.

built. It fronted the south, that it might receive the warmth of the sun in winter, and be defended from its heat in summer, when that luminary has attained its greatest elevation. The apartment of the women was separated from that of the men by baths which prevented any communication between the slaves of different sexes. Each room was adapted utmost neatness was every where conspicuous .-Garlands, and incense for sacrifices, habits of ceremony for the festivals, armour and military dresses, garments for the different seasons kitchen utensils, instruments to grind wheat, vessels in which to knead dough, and provisions for the whole year, and each month in particular, all were found with facility because all were in their proper places, and orderly arranged. The inhabitants of the city, said Eu thymenes, would treat this methodical exactness with contempt; they are ignorant how much time is saved by it in looking for things and that a husbandman ought to be as great an economist of his time as of his money.

I have set over my house, added he. an intelligent and active woman. After being satisfied that her manners were unexceptionable, I gave her an exact inv ntory of all the things committed to her care. And how, said I, do you recompense her services? By esteem and confidence, answered he Since she has been entrusted with every secret of our affairs, they have become her own. We pay the same attention to those of our slaves who show zeal and hdelity in our service. They have better shoes, and are better clethed. These little distinctions render them sensible to honour, and retain them in their duts more effectually than the fear of punishment.

My wife and myself have divided between us the care and management of our affairs. She regulates all the household concerns, and I inspect whatever is done without doors. I have undertaken to cultivate and improve the lands which I have inherited from my ancestors. Laodice takes account of what is received and expended and of the storing and d stribution of the corn wine, oil, and fruits, which are delivered to her care. She also maintains order among our domestics, sending some to the field and distributing to others wool, which she teaches them to prepare and make into clothing Her example lightens their labours: and when they are sick, her attentions and mine alleviate their suffer-We compassionate the condition of our numerous claims to our gratitude.

After having crossed a court-yard full of fowls in which we saw successively bloom, narcissuses preservation. hyacinths, irises violets of different colours, roses of You cannot be surprised, said my friend, at the care dogs kept to drive away the wolves Every time I send wood, charcoal, fruits, or other About a league and a half.

to these some baskets of flowers, which are sure to find a speedy sale.

Enthymenes afterwards conducted us to his farm, which is more than forty stadia in circuit,† and from which he had obtained the preceding year above a thousand medimini of barley, and eight hundred measures of wine. He had six beasts of burden, which to the purpose for which it was designed. The corn every day carried to market wood and other commowas kept in a dry place, and the wine in a cool one. ditties, and brought him in twelve drachms daily. [a] The furniture was not rich and sumptuous, but the As he complained that inundations frequently carried away his crops, we asked him why he had not removed to a part of the country less subject to such accidents. Advantageous exchanges have often been proposed to me answered he, and you shall see why I have not accepted them. He immediately opened the door of a small inclosure, in which we found a plat of grass surrounded with cypress trees. Here, said he, are the tombs of my family There, beneath those poppies, I saw the grave dug in which the remains of my father are deposited .-By the side of it is that of my mother I sometimes come hither to converse with them, and imagine that I see and hear them. No; never will I leave this sacred spot. 'y son said he afterwards, turning o a little boy that followed us, when I am dead, lay me beside my parents; and when you have the misfortune to lose your mother, place her next to me. Remember it is my command. His son promised not to neglect what he had enjoined him, and burst

The borough of Acharnæ is full of vineyards, and the whole country of Attica covered with olive trees, which are more carefully cultivated there than any other kind of tree Euthymenes had planted a great number of them, especially along the roads which bordered his farm. He allowed the space of nine feet between each, because he knew that their roots will extend to a considerable distance. No person is permitted to root up on his grounds more than two olive trees in a year, unless it be for some use authorised by religion. He who violates this law is condemned to pay for each tree a hundred drachms to the informer, and another hundred to the public treasury a tenth of which is deducted for the treasury of Minerva.

W. frequently find clusters of olive-trees left in reserve, and surrounded by a hidge. These do not appertain to the owner of the field, but to the temple of the above mentioned goddess. They are farm ed out, and their produce is entirely set apart for the maintenance of her worship. If the proprietor of the land should cut down a single tree, even though slaves, and are ever ready to allow that they have it should be only a barren trunk he would be punished with banishment and confiscation of h s goods. The Areopag is takes cognizance of all offences reducks, and other domestic birds, we visited the lative to the different kinds of olive trees, and from stables, sheep-folds and likewise the flower-garden; time to time sends inspectors to watch over their

Continuing our walk we were passed by a nuvarious species and all kinds of odorilerous plants merous flock of sheep preceded and followed by with which I cultivate flowers: you know that with o' skin was wrapped round each sheep. This practhem we adorn the temples altars, and statutes of tice which has been borrowed from the Megareour gods; that we wear crowns of them at our en-lans, defends the wool from the filth which might tertainments, and the celebration of our sacred rit s. otherwise defile it and prevents it from being torn that we strew them on our tables and our beds; and by the hedges. I know not whether it contributes that we even offer to the divinities those which w to render the wool finer, but I can affirm that the esteem most grateful to them. A hushandman, be- wool of Attica is extremely fine. I should add sides, ought not to neglect the smallest profits — likewise, that the art of dying has there been

He showed us his house, which had not long been [commodities, to the market of Athens. I always add | brought to such perfection, that the colours it gives to it are never offaced.

> I learned on this occasion that sheep grow the fatter the more they drink; and that to excite their thirst, salt is often mixed with what they eat; and that in summer especially, a certain measure of is, that is a medimmust for each hundred sheep, it distributed among them every fifth day. I was likewise told that, when they are thus made to eat salt, they give more milk.

> At the foot of a small eminence which bounded a meadow, we saw a number of bee-hives surrounded with rosemary and broom. Observe, said Euthymenes, with what industrious alacrity the bees execute the commands of their queen; for she it is who, not suffering them to remain idle, sends them into this beautiful meadow to collect the rich materials, the use of which she regulates; she it is who superintends the construction of the cells, and the education of the young bees, which, when they are capable of providing for their subsistence, she forms into a swarm, and obliges to leave their home under the conduct of a bee which she has chosen. (b)

> Further on, between the hills enriched with vine yards, we came to a plain where we saw yokes of oxen some of which drew tumbrels of dung, while others harnessed to the plough, laboriously traced the lengthened furrow. I shall sow barley here said Euthymenes. for that is the kind of grain which' succeeds best in Attica. The wheat we grow here affords indeed a bread very agreeable to the taste, but it is less nutritive than that of Beotia; and it has been more than once remarked, that the Bootian athletæ while they reside at Athens, consume two-fifths more of wheat than in their own country; yet is that country contiguous to ours: so true it is is, that a little thing suffices to alter the influence of climate. As another proof of this, it may be remarked that the isle of Salamis is close to Attica, yet grain ripens there much sooner than with us.

> The discourse of Euthymenes, and the objects by which I was surrounded began to engage my attention. I already perceived that the science of agriculture was not founded merely on blind custom, but on a long series of observations. It appears said our guide that we formerly received the principles of this art from the Egyptians, and that we communicated them to the other nations of Greece. the greater part of whom, in gratitide for so great a benefit, bring us every year the first fruits of their harvests I know that other Grecian cities make the same pretensions with ourselves; but to what purpose would it be to discuss their claims? The most necessary arts have had their birth among the most ancient nations, and their origin is the more illustrious as it is more obscure.

> That of husbandry, when transmitted to the Greeks, became improved by experience; and a number of writers have employed themselves to collec. its precepts. Several celebrated philosophers as Democritus, Archytas, and Epicharmus have lest us useful instructions on the subject of rustic labours, and many ages before them they had been sung by Hesiod in one of his poems: but a husbandman ought not to abide so implicitly by their precepts as never to dare to interrogate nature, and make new experiments. If then replied I. I had a field to cultivate, it would not be sufficient to consult the authors you have mentioned? No, answer-

<sup>†</sup>About four bushels.

but such as are not suitable to every soil and every To be continued climate.

NOTES.

(a) On the produce of an Atheman farm-Demosthene mentions a private person of Athens, named Phonippus. who having obtained the quantity of barley and wine stated in the text, sold each mediannus of barley for eighteen drachmas [16 liv. 4 sols, or 13s. 6d] and each metreters of wine for twelve drachmas [10 hv. 16 sol-, or 9s.] bar as he afterwards says, that these prices, perhaps on account of some scarcity, were triple the ordinary value of the commodities, it follows, that in his time, the common price of the medimnus of barley was six drachmas, and that of the metreters of wine four drachmas. A thousand medimni of barley (a little more than four thousand bushels] were therefore worth six thousand drachmas [5400 liv. or 2251] and eight hundred metretæ of wine, three thousand two hundred drachmas [2380 liv. or 1201.] total, 8280 hv. or 345t.

Phonippus had besides six beasts of hurden, which were continually employed in carrying to the city wood and other kinds of materials, and which brought him daily twelve drachmas [10 lav. 16 sols, or 9s.] The festivals, bad weather, or work that might not be neglected, frequently interrupted this little traffic; but if we suppose that it only took place for two hundred days in the year, we shall find that Phenippus annually received a profit of 2160 liv. [901] which, added to the 2280 hyres (4351) for the produce of little more than a league and a half in

circuit.

(b) On the Queen Bie. It appears, by the passage o Xenophon, quoted in the text, that the author considered the principal bee as a female. Naturalists afterwards were divided on this subject; some imagining that all the bees were females, and all the drones males-and others maintaining the contrary. Aristotle who refutes their opinions, admitted in each hive a class of kings which continued their species; he confesses however, that sufficient observations to determine any thing with certainty had not been made, and naturalists have returned to the opinion which I attribute to Xenophon.

# Cultivation of Artificial Grasses.

TO THE EDITOR OF THE AMERICAN FARMER.

SIR.-I am very sensible of the useful objects of your excite our farmers to new considerations in their agricul-visible in the use of clover lays for other crops. It is one to all. When at work the horses have besides, a little tural plans, to an enlargement of their views, an appre- of the advantages of deep ploughing, with this as well as grain, and are kept sufficiently well.

prehension of principles and modes of cultivation, as well other plants, that it is less likely to be heaved out of the Timothy is a grass well known among us; it yields one as to bring into their sight, many articles of growth suited ground by frosts, when it has an open under soil to shoot heavy crop in a year, and lasts eight or ten years in suitto their soils, and valuable as the supports of animals, its long tap root into. It is so well known that nothing able soils. A rich moist land, is its proper station, though

You have the honour of being the first in our country, to think that I could furnish something to this, from my sive, it suits me better like many others, to receive the lessons of attentive and intelligent men, than to commu- better be mixed. nicate from myself. For this there are better reasons than a selfish love of ease or indifference to the general wel- of all for green cutting. It is not to be recommended for The best time to cut it, as has been said, is just as the fare: and which will easier appear, than those for my en- hay, for losing too much in curing. Its value for summer flower withers earlier or latter mowing, being unfavourathat may be acceptable.

A compendious system of husbandry would require a tice thus excited, was visible to many and engaged them out again fresh and green, continuing till severe frosts in the fall, or on it in the spring, will, in the second year, to follow when successful. Thus a thousand circles of occur. improvement were formed, until a whole population were not lkely to go back, though they are ignorant it was manuring of rotten dung, every second year. It sends to the foregoing. Yet it is entitled to a place to pasterived from books and reading. That is from the revery long large roots to a great depth in the earth; the ture ground's, or to a lot by itself for early moving cords of practice and observation of the most skilful. - natural supports of such a vigorous vegetation. But it re-When suffered to get full ripe, it is not well relished

i freer press distributed wider information there, than strike into water irough the silent countries of the neighbouring continent. But the greatest success followed the publications which no finer crop can endure, it is best cultivated in of certain societies, which were easier circulated, and o' drills; as in this situation, the hoe, spade or small scariv form to engage the reading; consisting of short plain from harrow may be employed to destroy any oth r growth. res a d profits. But it this has been the case among the poorish peasantry of Europe, tenants or vassals of the form; how much is to be expected from the intelligent There is however, one disadvantage in this; being nent, which must be obtained by greater exertions of cated before it thought and industry.

As the manure heap lies at the foundation of good husbandry, it is necessary to consider how this may be made as large as possible. For a great superstructure cannot be raised on a narrow bottom. The crop, with equal culture, will be in proportion to the manure laid under it.

should of course be fed there instead of running out, as they mostly do night and day, as long and longer than they can find pasture. For this purpose suitable grasses to say this is troublesome and expensive: for without it nothing can be had, and without a good deal, nothing considerable. But a man thus employed, saves his own wages, and enables the ploughman to earn more also; who too to gardens, and will supply a cow perhaps through the often drives a profitless plough, for want of some trouble, summer and prudent expence before hand.

There are several grasses, recommended for feeding green, or curing for winter food, beside roots, &c.

Clover considered in all its beneficial effects, extending to successive grain crops, appears to be the first of injury, and something obtained grasses. It is the most succulent and richest plant known for the purpose; suited to horses, cattle, hogs, and serviture, vol. 6, part 1st, the products of several grasses are ing in less quantity. Indeed, from its richness it is necessary to give less than of other grasses; a quality that has

Lucerne is the next grass for large produce, and first grain or meal, to keep them in good condition. tering publicly on the subject. However, I have received feeding is enough. It is generally fit to mow about the ble to its continuance. great pleasure from your publications, and owe any return end of April, a fortnight sooner than any other grass, and volume. And volumes have been written, no doubt with like clover, and being acceptable to all creatures, except little inferior in value to these grains, and will not hurt much advantage; though the system has never been per- in solitary instances. It is apt in the hottest weather, to the ground so much. This is my practice, grass only befeered, the reading also was confined to few, but the prace grow yellow and appear sickly; but when cut it puts ing the object; the clover sown either with the timothy

The soil suited to it, is a dry, sound earth: if rich and choicest hay. brought into a course of superior cultivation, which they mellow, the better, but it will do in middling grounds, consider at present as their own, and from which they are land lasts eight or ten years if kept clean, with a slight

ed my friend, they give many excellent directions. I island this especially improved under these means, as quires this depth of dry soil, as it is said to rot if the roots

To save it from the encroachment of common grasses, essays, reports of experiments, and statements of expen-But unless this care can be taken it had better be sown road cast; as it will maintain itself longer when it fills the ground at first, than when interval- are left for the wild grass to possess and spread from The broad cast turmers of America, who own the land they cultivate, and will also have the advantage in produce, for two or three are in the habit of reading the public papers very general lyears, and it may be slightly cleared and assisted by harrowing it in the spring and after cutting; for it is so firmmuch at their ease, they are apt to be careless of improve-ly fixed in the ground, that every thing else will be eradi-

The ground being well prepared, and made perfectly clean, the preceding autumn, should or apain tirred and narrowed till fine in the spring. To sow i in drills at two feet distance, which is the best, a piece of wood six or eight inches thick, six feet ling, borca at each end and every two feet distance, with a wooden peg of the size of The stock of every kind should be kept in their yards a harrow tooth driven through each hote, so as to trace a as much as their healthy preservation will allow. They furrow an inch or so, in the earth, and lifted with two furrow an inch or so, in the earth, and lifted with two poles as shafts, will mark at once four civils of that depth, and may be drawn by a man over the ground well enough.

The seed should be sown about as thick as clover seed, must be sown, and kept to mow all summer. It is in vainfund rather exceeding than falling stort, to at no gaps may be in the drills which cannot be easily filled by after sowing; or it may be raised in seed beas, and transplanted into rows very well. In this way it may serve for edgings

The earliest season in sprag should be taken for sowing, and all other grass should be picked out as it appears. The Lucerne will scarce afford a crop the first year, the growth being then very slender, yet it may be cut without

In a communication, to the English Board of Agricul-

stated as follows:-

Clover and rye grass mixed, yielded 9 tons per acre, at been strangely perverted to a fault, because it injures the first crop-6 tons at the second. Luceme, 6 tons the when over eaten, the consequence of intemperate use of first crop, 5 the second, 4 the third, and 2 tons the fourth every rich and luscious article of diet .- It is easier raised of green food. The land described as poor clay, with a where plaster can be used, than any other vegetable; and hard cinder under stratum, top dressed with coal ashes, has done wonders, thus on poor sods and exhausted street rakings, sea sand, &c. A little more than half an fields. If the land is but dry, it will thrive in either light acre with me, has constantly kept two cows, and two or heavy soils, with suitable culture. It seems to preserve horses, from the last of April to October; feeding morna greater measure of moisture to the ground under it, and ing and evening; the cows turned out in the day to graze by its substantial roots, as well as succulent leaves and in the lanes and commons: the horses furnished with a present publication, and the meritorious endeavours to stalks, produces that improvement which has become so portion of hay and green clover, while cutting that crop,

whom no system of husbandry can omit in its calculanced be said of the benefit it yields to a succeeding crop it grows well in any good land free from surface waterations.

The second mowing is perhaps best reserved. The ease with which it is cured into hay, and the little for seed, as it often occasions a running at the mouth of trouble in its cultivation, recommend it very generally. who alone, unaided, at your own risk, have commenced the creatures who eat it. When it does this with horses, It has the farther recommendation to those who sell hay, and devoted a periodical paper to the subjects connected it is folly to give it to cows, who require the best food, if that it sells well; being suited to the use of inns and liwith rural affairs and economy almost exclusively; and it is expected that they shall yield milk and butter - very stables, and in repute with stage proprietors, &c. that in the midst of engagements which seemed sufficient They will not slobber with it as horses do, but they will for road horses. But when it is preferred to clover and to damp a considerable zeal in the undertaking. You seem no more thrive on it than those who are thus considered richer grasses for these, it is upon no better grounds, than as their betters - If not saved for seed, it will answer for that poor dry food will not surfeit or founder; the same small stock of experience. But as my zeal is more pas-flitter, and the straw it may be substituted for, will sell reason would give the straw a preferrence to the grain. as well, or do less harm in feeding; at any rate they had Timothy has a dry hollow stalk, with thin blades and better be mixed.

But it needs an auxiliary in

Timothy may be successfully sown in the fall to bring will yield in good ground four cuttings in a season. Its in a crop of clover afterwards, in place of oats or barley. excellence for feeding appears in never blowing or hoving A crop of hay is thus gained without the loss of a season,

Orchard grass is an early grower and makes a large appearance; but it is in neither weight or quality equal by the creatures it is designed for, and therefore goes ing crop, as all of the pulse kind are supposed to be, and very much into the litter.

er climate, though the crop is not large.

essened.

n Holland.)

Vetches are a similar article, but much inferior. The pring vetches, especially, are quite insignificant as a rop for the scythe; 'hough sown thick, they protect he soil, and contribute to it when ploughed in.

By the use of these, and perhaps some other grasses, he land itself will be refreshed after hard cropping ath corn, wheat, &c. : and so much food provided for stock of cattle, as will return four-fold to the manure eap, and add yearly again in an increasing round to Il the crops, if taken in a just succession.

I have mentioned no grasses but what I have myself oarse, and have no particular effect on the land, nor nswer specially for intermediate crops, or vary the asons of labour and harvesting.

One general observation upon all crops is, that when hey stand long upon the ground, they favour the growth nd seeding of weeds, which early and repeated cuttings erve to diminish.

padd, that you are welcome to my name, if it is of any onsequence, though it is as little desirable to me as ny one to place it before the public.

JAMES H. M'CULLOH.

JOHN S. SKINNER, Esq.

Editor of the American Farmer.

P. S -I forgot to mention that my soil is a pretty

eficient in mowing grounds, oats may be sown on your ber, and make it point to pay as I go. llow ground, and cut for hay before ripening, &c - and terwards, "if any covering crop or summer fallows, hich does not exhaust like oats, could be suggested, a steemed in England as a cleaning crop; a spring cover week carefully corrected. pease ripening in time, is beneficially used to precede heat, in the autumn," &c.

mber or March, will cover the ground with an enrich-bargain.

furnish an excellent hay, or green food, according as it My experience of Trefoil and Saint Poin has deter-may be wanted, from the beginning of June to July or Au-Pernambuco, intimate that the spirit of insurrection is mined to me, that the first with no peculiar advantage, gust, as they may have been sown sooner or later. Oats far from being extinguished in that important section, is inferior to red clover, in quality And the latter is not only impoverish the ground, but when cut green, ap-though open resistance had in a measure ceased. The not suited to our chimate, being unable to endure the pear to be distasteful to the creatures, who I have often motives which actuated the men, who in 1817, so bravesun of our summers It is much esteemed in Europe as observed, will not eat them if they can get any thing else. ly challenged oppression, unfortunately, were not sufmaking excellent hay, but, is there appropriated, chief indeed, it appears to be the wise order of Providence to liciently understood at that time by the people; but the ly to chalky and rocky ground, and succeeds in a cool preserve the gram bearing plants, that they shall not be solicitude created by the merciless executioners, has There are some plants also, of the leguminous kinds they are allowed to ripen their seeds, which are endowed an attentive observer, that the names of those who elor pulse species, which may be profitably brought into with such capacities, that afterwards they will supply new ther perished with apparent ignominy on the gallows, use Of these, the best, as far as a little experience in plants in the proper soils and climates, in despite of all or suffered proscription, begin to be pronounced with structs the writer is the winter Tare. This article casualties. And thus are the valuable grains preserved, enhanced and veneration amidst the effusions of indianal bed with a crop on long growth without interfering thered from full fields by the reaper, constitute the food with the plans of the cultivator. Sown on such pieces of almost all the nations of the earth. To collect the Brazilians, by means of their extensive trade, their of land as would otherwise lie naked and unproductive, grains, to sow the seed, to gather the crop, is left to man's industry, the riches of one of the most luxuriant counn the fall, it will afford a mowable crop in the begin-skill and labour, which may be greatly assisted by the intries in the world, and their national pride, inherited in time for late potatoes, ruta baga, or any thing to be lown after the middle of June. Beside the advantage grow out of the ground," it must be left to give fulness of the grown of the grown of love droughts in autumn to the frosts and the frosts and our correspondent answers of love droughts in autumn to the frosts and the frosts and three bearing seed to the grown of love droughts in autumn to the frosts and three bearing seed to give fulness. njury of long droughts in autumn, to the frosts and where honest labour works with unvitiated purpose. Even nounces that that period is not far distant, wind of winter; a quantity of excellent food is obtain the unskilful industry of the first settler, generally the id, fitted to use green, or cured into hay, for both cat-most virtuous, is most happy in raising the supplies of le and horses. In feeding green, or soiling, as the un-life, which a more luxurious and dissipated race, though such phrase is amongst the English, it is only necessary with increased knowledge, means and preparations, and such usetts, on the petitions respecting the separation of y to take the same precaution as with clover; to feed driving harder to increase the desired fruits, is often disparingly, or to let them lie when cut till they are a appointed of It is usual to attribute much to a new soil, a great number of conditions, relative to public propittle withered when the danger of blowing or hoving is and there is a good deal to be allowed for that But does erty, &c. which must be recognised by a vote of the it not at once teach the great lesson: keep your land in people of the district. The 2d section of the Bill re-The seed at present must be imported, for it is not the state of freshness by giving them rest; restore them ported, providesnown where it has been used, except in one spot in to it by grass and manure; be sober and industrious: his place. It requires about two or two and a half look for the droppings of heaven with trust and patience, sushels for seeding an acre, as all mowable crops shoul and no scarcity will be felt, nor need you fly to other se thick set. (The price is about \$2.50 per bushel or fields, where, without a change for the better, the evil you 0s. 6d. to 11s. 6d. sterling in England; much the same complain of will soon follow.

#### THE FARMER.

#### BALTIMORE, FRIDAY, JUNE 18, 1819.

#### NOTICE TO SUBSCRIBERS.

When I purchased from Mr. REDDING, the establish ment of the Maryland Censor, I contracted with him to supply his subscribers, with my Agricultural paper; in lieu of the Censor, until the 19th day of August next .ried. Rye grass, Herds grass, and Burnet, have been ufficiently proved by others. The last appears to be ramer will not be sent, after the 19th of August next, iven up, the others have their advocates with reason to any one of the subscribers to the Maryland Censor, s yielding large quantities to the scythe; but they are who shall not have paid, before that day, the amount of his subscription. The terms of the Maryland Censor, expressly stated, that two dollars were to be paid in advance

I undertook to conduct an Agricultural paper, because thought a paper of that kind, calculated to do much good Too much has perhaps been said, and it only remains I never looked to it as a source of any profit, but I determined it should not be one of embarrassment. It was in October next. therefore resolved, to give the worth of the money, and to have payment in advance-reflecting that one thousand

COMMUNICATEO.

BRAZILS.-News received in town in 38 days from pleasant in an unripe state, to the grazing animals. Hence taught reflection to the inhabitants, and it is asserted by

#### MAINE DISTRICT.

"That the inhabitants of the District of Maine, who are qualified to vote for Governor, Lieut. Governor, &c. shall assemble in their several towns, on the 2d Monday in July next, and give their vutes on the question, "Is it expedient that the District of Maine shall become a separate and independent state upon the terms and conditions provided in an act entitled an act relating to the separation of the District of Maine from Massachusetts proper, and forming the same into a se-parate and independent state?" The Selectmen to make eturn of the votes on this question to the office of the Secretary of the Commonwealth, on or before the second Monday in August next-the votes thus returned, to be counted by the Governor and Council, and the Governor to make proclamation of the number of votes thus returned for and against separation. If the votes in favor of separation shall exceed those against it, by fifteen hundred, the people shall be considered to have declared their consent and agreement to the terms proposed, and in that case they shall be called on to choose delegates to form a constitution,

If it shall be declared that there is a majority of 1500 votes in favour of forming an independent state on the and one dollar at the commencement of the second half terms proposed, the inhabitants qualified to vote for Senators, to be called on to meet in the several towns, and to choose one delegate, or such number as they are no one else had done, or would do it; and because I entitled to choose of Representatives to meet in convention for the purpose of forming a constitution of Government. The convention to meet on the 2d Monday

GEOLOGY.

We observe with pleasure, that a geological society, persons, could better afford to trust me with two dol consisting of professor Silliman, Col. Gibbs and many lars each, than I could tru-t two thousand, scattered other scientific gentlemen, has been formed in Connecover the United States. To these resolutions, I shall thout. This interesting subject, until recently, has not adhere. On the one hand I shall be ready and glad to attracted the attention, or commanded the abilities of iff, dry loam, of middling quality; formerly worn out in supply any number of papers, that from any accident, do Physiologists, in the proportion which its importance, orn, &c. - iniproved for some years by alternate crops and not come to the hands of my subscribers. On the other seems to demand. Newton ascended to the heavens, hand, should any gentleman, find his paper discontinul but he appears to have penetrated but a little way to ADDENDA.-Judge Peters, in his judicious Notices to ed, he is advised to look at his receipts, and see wheth the lower regions. There have been many hypotheses oung Farmers, which should be kept as a manuel of practer he has paid up according to the terms of the paper, on the original formation of the earth, by Whiston and ce hy every one, old or young, observes, "If you are I have the paper printed by contract, at so much a num-others, but all of them wild and conjectural; in short they seemed to amount to mere guessing Curier has of late treated the subject with great ability, so far as We have nothing particular to offer our readers, this he has gone; but a great deal remains to be investigated week, as to the prices of country produce; no essential and explained. Whence arise meteoric balls, occanic reat reformation would ensue. Vetches, or some such variation having occurred since our last, more than is currents, earthquakes volcanoes, but more especially ant might be substituted; the Heligoland bean is now noted in our regular list on the last page, which is every whence is the origin of rivers? If, as has been suggested, the principle of evaporation is not sufficient to account patis-Live Stock .- Eighteen Bullocks, from the S. Branch, factorily for this origin, it must almost of course folheat, in the autumn," &c.

Potomac, weighing about 700 each, very fat and fine, low, that there is an internal communication with the Now this sound suggestion of the Judge is exactly an sold yesterday to the butcher, at SJ per hundred that ocean; and this fact once established, would lead, pervered by sowing tares, which either sown early in No- is for the nett beef. The butcher gets the offal in the aps, at last, to a probable developement of the whole internal machinery .- . Albuny . Argus.

# PRICES CURRENT

#### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Curtyany 200		J	
ARID LES.	rER.	RETAIL	PRICES
BEEF, Northern mess	bbl.	17	
No t		15	
No 2		13 50	
Baeon,	ib.	16	
Butter, Ferkin		18	20
Coffee, first quality,		33	
second do	l	27	25
Cotton,		27	
Twist, No. 5,		45	
No. 6 a 10, -	1	46	50
No. 11 a 20, -		53	80
No. 20 a 30, -		80	1 20
Chocolate, No. 1,	1	33	
No. 2,		28	
No. 3,	1	25	
Candles, mould,	box	20	22
dipt,	1	18	19
spermaceti, -	1	45	scarce
Cheese, American,	lb.	10	15
Feathers,		60	65
Fish, cod, dry	qtl.	3 50	
herrings, Susquehannah,	bb1.	2 75	retail
mackarel, No. 1 a 3	1	9	12
shad, trimmed, -	1	7 75	7 87
Flonr, superfine,		6 50	7
fine,	bbl.	5 50	6
middlings,		4 50	5
rye,	}	4 a	4 25
Flaxseed, rough,	cask	none.	
cleaned,	bush	do	
Flax,	lb.	do	
Hides, dryed,	l	12	15
Hogs lard,	1	12]	13
Leather, soal, -	1	25	80
Molasses, Havana,	gal.	62 1-2	7.5
New Orleans, -	_	75	
sugar house,	{	1	
Oil, spermaceti,	gal.	1 50	
PORK, mess or 1st quality, -	bbl.	18 a	20
prime 2d do		16 a	17
cargo 3d do	1	14 a	15
Plaster,	ton	5	
ground	hbl.	1 75	
Rice	lb.	6	
Spirits, Brandy, French, 4th proof	gal.	2	3
peach, 4th proof		1 25	1 50
apple, 1st proof		75	
Gin, Holland, 1st proof		1 50	
do. 4tb proof	]		
do. N. England	1	50	60
Itnm, Jamaica,		1 50	2
American, 1st proof		75	
Whiskey, 1st proof		50	62 1-2
Scap, American, white,	lb.	18	20
do. brown, -	1	9	
Sugars, Havana, white,	1	19	
brown,	ł	14 50	15
loaf,	ļ.,	25	28
lump,	lb.	20	a 25
Salt, St. Ubes,	bu .	70	,
Liverpool, ground,	l <sub>n</sub>	75	1
Shot, all sizes,	lb.	12	
TOBACCO, Virginia fat,	cwt.		
do. middlings,	1	6 50	5 50
Rappahannock,		5 6 50	5 50 7 50
Kentucky,	11.		37
small twist, manufactured,	lb.	25 50	75
pound do		63	' '
TEAS, Bohea,	lb.	75	a 100
Souchong, Hyson Skin	110.	75	a 100
		1 25	a 150
Young Hyson,		1 75	4 130
Imperial,		80	
WOOL, Merino, elean, unwashed, -		40	
	1	65	
		1 03	
crossed, clean,		9.5	
unwashed -		85 37	
unwashed - common country, clean,		85 37 25	
unwashed - common country, clean, unwashed		37	
unwashed - common country, clean,		37 25	

### MISCELLANY.

From the Nutional Advocate.

### DOMESTIC ECONOMY.

I don't subscribe to all the New York papers. but I read them at a Coffee House, where, for one other. A young man of moderate exp ctatio s, shilling I get a cup of strong and refreshing coffee, and have an opportunity of pursuing my old habit of studying characters at the same time. A few days ago, I amused myself with counting the marriages keep them apart -It cannot be necessary to bring in my friend John Lang's Gazette, and also the up daughters extravagantly because the father is paper published by little Mr. Butler-but I really was shocked to see such falling off. It appeared to me, that in a community so extensive as ours, there is one third less marriages than is necessary to maintain a fair equilibrium of population. Why don't people marry?-Why are there so many antiquated damsels and superannuated bachelors? Aye. thinks I, there's the question-but it can be solved. casion, and resigned their luxuries and extravafashion, for which young ladies are celebrated certainly -but had they not been led into these exfrighten the young men from making advances--and the follies and personal expences of young men, render them insensible to all the joys and comforts of matrimony faults thus on both sides, have a tendency to keep them separated, till young ladies be- few minutes after, she went into Mrs. Poppleton's; come old, and old bachelors marry to get nurses. Why not adopt new systems, and set on foot a radiat a very carly age, and accustom them to simple ments—but she purchased a huge piece of neavy and nutritious fare, very plain dress, and hardy amusements; the girls should be stirring and active. familiarized at an early period with domestic concerns, quick and expert at their needle-their leisure hours should be devoted to their books-they should read judiciously and write frequently, for writing well is an elegant accomplishment; if I could afford, a little music and dancing should also be acquired, but they should not go in company at an early age. I see with regret mothers dragging their daughters of twelve and thirteen years to par ties and balls, under an erroneous impression that it gives them an air of ease and confidence: - may be it does;-it may give them too much confidence; they acquire an early taste for pleasure and amusements—if they are pretty, be sure of it some cox comb will whisper his flattery in their tender ears. and little miss will be so accustomed to hear these fine things, that she will neglect indispensable improvements, and lancy herself at perfection, and before they arrive at an age when mothers are justified in bringing them out, they acquire havits and ideas which render it necessary that they should be kept at home. Then the boys are very apt to be equally spoilt by the indulgence of mamma, and the perfine blue coat at forty dollars a dandy neckcloth, chain and seals, because it is the fastion, forsooth; and money in his pocket to visit the third ca t quike. tier of boxes in our theatre to eat oysters and icc cream, smoke segars and drink braidy and water. these ruinous indulgencies are seen by the sisters, and they must come in for a share of the extravagancies Bob has this, and I must have that Example is every thing: if it be a pernicious one, is cannot fail to produce a pernicious effect " rain up a child in the way he should go, and when he is old he will not depart from it."

f parents will only have firmness to resist the pressing and dangerous solicitations of their chil-

dren: if they adopt a correct and wholesome system and enforce it with unyielding structness in a very short time the good effects would be discernableand, what at first child en violently and obstinately opposed, they will at length chearfully submit to, and all will go on smooth and happy Marriages, therefore, are rare, because the parties fear each fears the extravagancies of a w fe; and a young moman fears that h r husband would abridge ber customary indulgencies, and thus fears operate and rich-il it is justified on the score of fitness and propriety of habits and custom, how keenly must they feel a reverse of fortune? People sometimes meet with sad reverses: 1 was told that several bankruptcies occurred lately among merchants who had foolishly lived like nabobs—and I also heard, that their wives and daughters behaved well on the oc-The errors of education, and the extravagance of gancies without a sigh This is creditable to them travagancies, may be these reverses would never have happened.—Avoid all causes of unhappiness. the other day I saw a pretty young lady purchase a white satin reticule with clasps, for \$6, and a -now thinks I. she feels a little laint with walking, and intends eating a tart or a jamble, and drinking a cal reform at once? I would begin with children glass of lemonade or some such reasonable refreshpound cake, and after demolishing a good half, she thrust the remainder in her reticule, and in a lew minutes, the white satin became quite affected by the grease of the cake, and was, of course, useless: there are six dollars and a half at once gone, which would have supported 12 poor families one day.he gentlen en however set bad examples, and the ladies, unfortunately imitate them.

I his coat cost me 15 dollars, said a fashionable friend to me-feel the cloth, \$16 per yard. What extravagance! what a waste of money! No wonder merchants break- no wonder people marry so seldom If a different system is not adopted. I shall begin to fear that the happiness of the community, us prosperity and increase will be seriously affected. -Dandy Bachelors and antiquated Belles, will usurp the places which should be occupied by young married couples-and smiling infants-and Hymen's torch, which should burn bright and clear, will be dimned by the mildews of fashionabbe ex-

travagance and tuinous bankruptcy.

HOWARD.

#### PHENOSENON.

A few days since, at Sandy Bay, Cape Ann, the tide arose ten feet in a few inoments and as suddenly ebbedtranquil compliance of father; Bob must have a su- in the rapidity of the ebb. a boat was overset, and the person in her was drowned. A before important spring on Mr. Trask's land, the became dry, and has continued so. Many of the inhabitants of the vicinity think there was an

#### PRINTED EVERT TRIDAY,

#### FOR JOHN S. SKINNER,

. At the South-west corner of Market and Belvidere streets, BALTIMORE,

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# AMERICAN FARMER.

# BURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRETT.

"O fortunatos nimium sua si bona norint

Vol. I.

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#### AGRICULTURE.

From the Memoirs of the Phi'adelphia Agricultural Society

## Notices for a Young Farmer,

Particularly one on Worn Lands, &c. &c.

WITH NOTES BY THE EDITOR OF THE AMERICAN FARMER.

[Continued from No. 12, page 99.]

Fire on Soi's; its uses, and observations thereon.

XVIII. The effects of FIRE on soils, are well kn wn in foreign countries to be salutary; and here, proofs are not delicient. Various modes in which it has been applied, are to be found in Eutopean books. When carried to excess, it is, like all good things abused, no doubt injurious. Nor would any one wish to destroy the inestimable vegetable matter of a sod, capable of being completely decayed, so as not to vegetate; for this would be unnecessarily wasting the means of restoring fertility, by the co-operation (with this inert vegetable matter) of manures, or materials for the food of plants in the earth or in the atmosphere. But where bulbs, or other pests are otherwise indestructible; or the substratum be clay, proper for burning into highly fertilizing manure, there can be no reasonable objection to the application of fire. Denshiring, or burnbaking, is described in agricultural books, wherein its benefits are developed, and the improper use of it pointed out. Burnt clay has been long known to be fertilizing, and so are the ashes of peat and turf. Even burning brush and straw on fields, is proved to be almost incredibly fertilizing and productive. Burning the foul cover of wild grass and weeds, before ploughing for Indian corn, even in the spring, has, in frequent instances, destroyed the grub or the eggs of its parent. In what manner heat operates on soils, it is not essential, nor is the inquiry whether the effect be produced by the ashes or the mere application of fire. The facts are well ascertained, and that is enough for all practical purposes. Some soils may be less benefitted than others; and with some, hurning may entirely disagree. Whatever may be the theory of, or prejudices against, this operation, it behoves us at least to try, if even on a small scale, a practice which has the approbation of eminent and successful practical and scientific agriculturists in Europe. And in this, as in every other operation, a farmer should know and calculate on the nature of his own soil, and thereby judge of the expediency and propriety of any

Ditching and training. Warping, Irrigation, Stagmant Water injurious if not carefully attended to.

XIX. Our awkward mode of directing and draining our swamps or wet grounds, is not only inconvenient and unsigntly, but occupies space unnecessarily. Underdraining, and thereby preserving a level, dry cultivatable and productive surface, is every way eligible, where the site

will admit of it. It would be well for some spirited agriculturist to set an example of improvement in this regard. Lessons, in European books, for anderdraining, are in plenty; and there is one in the Memoirs of the Philadelphia Society.

In declining grounds, a straight open ditch in the direction of the declination, is injurious and dangerous. Violent floods in such ditches, always produce a ravine or gully. The ditch should be oblique and ca'culated to resist them, whilst it still affords a sufficient passage to floods. Nature establishes precedents: her streams being generally meandering and flexous. Under, i. e. covered drains, are not liable to the ravages of floods: and may be straight, without being exposed to the dangers to which open ditches are subject. Our rich alluvial tide-water meadows, are not included in these remarks; the drains and ditches of these, for the most part, must necessarily be wide and open. Modes of surface draining, and instruments for the purpose are pointed out and described in European books, and are well worthy our attention.

The fertile bottoms on rivers and less streams, frequently prove the fecundating effects of overflows occurring from floods, which leave their rich deposites on the recession of the waters. In Europe they practise what is there called WARPING: to produce, artificially, the like result. By means of banks, dams, and flood-gates, where there is fall enough to drain off the tides admitted, they introduce the water of a river, (and the more turbid the better,) and suffer it to remain stagnant until it has not only destroyed worthless vegetation, but by the settling of the rich mould which has been held in solution, great store of manure is deposited for profitable culture and renovating the fertility of the soil .- After their first operations are completed, they suffer the banks, sluices, and flood gates to remain, and admit the water occasionally, as it may be necessary for either irrigation or manure. In our embanked meadows, something of the kind is accidentally or purposely done. But it would be well, where it is practicable, to introduce this improvement among us. Many modes of irrigation are practised in other quarters of our globe; but here water is not applied to agricultural purposes, in any degree equal to the uses whereof it is capable. In our southern countries, it is only applied to particular crops.-Birkbeck's account of irrigation, in the south of France, is well worthy of attention. It will be seen, that its uses are not confined to grass, but are extended to every species of crop, and so had been, there, through ages: Channels for the conveyance, distribution, and delivery of water from one farm to another, have remained for a time beyoud the memory of man; and are held as inviolable as the boundaries of property. But the use of water should be carefully studied. Stagnant water, if suffered to remain long, injures vegetation; and even its deposites of rich manure have bad effects on some grain, in the first instance, though finally they fertifize wonderfully. Wheat is the most injured by stagnant water, and is often

so scalded and deterior ited, as to become abortive, and produce only cheat. In winter the irrigation of grass grounds, is held to be most advantageous; and the water is more nutritive by its deposits. In hot weather, it scalds, and should be turned off, so as to be only occasionally used.

Discretion, as to the numbers and species of live stock, recommended, and judicious selection of breeds.

XX. Always rather understock your farm, with domestic animals. An extra number of Horses, is the most oppressive. No farmer should be without a due proportion of working oxen. The neck yoke is the simplest, but is not deemed the best mode of enabling them to work. That fitted on the forehead and attached to their horns or collars, and other appropriate gears, are, by many preferred.

Have no more Swine than you can feed well: (always wrung,) and kept within your own inclosures, if your farm be in a populous neighbourhood. Running hogs are fertile sources of bitter enmities, and petty controversies. A rooting hog wastes its flesh and requires more food to restore it than is gained by the scanty prey after which it labours. Nothing is better for store-swine, than red clover eaten off the growing plant. But, differently from horned cattle, green clover cut and given to them, will not keep them in good plight. They waste as much as they eat, and do not relish it in this way.

In a well managed butter dairy, skimmed and butter milk will afford means of raising a store-pig to each cow besides a due allowance for some sows, to produce pigs for store-bogs and roasters for the market. Few farmers, however, do so much, because they will not raise esculent roots, as substitutes for grain, for winter keep of store-bogs. A milk dairy furnishes food for sows and pigs, from the offal and unsaleable milk.

Let all your stock of animals be of the best breeds: but study useful qualities, more than shewy figures. Yet well proportioned and sightly animals are generally the most valuable, both as it regards usefulness and keep. There are exceptions, in dairy cows particularly. Large horses, cattle, sheep, and swine are not the most profitable. Those of the middle sizes are, on every account, to be preferred. Ostentation, (and, as it respects the horse particularly, a less innocent motive,) more than real benefit, too often excites those who value themselves in exhibiting very beautiful horses, very large and very fat, (and of course very expensive,) cattle, sheep, and swine. This may be, and is, a laudable pride in those whose circumstances admit of indulging it: and breeding well formed and well endowed animals. is highly worthy of encouragement and merited praise. But hardihood and easiness of keep, should be prominent qualities, especially in the -tock of a larmer. For such qualities, and many other good properties, the Tanis sheep will be found worthy of great attention.

A principal of adaptation of animals, as well as glants, to soil, climate and situation, will be found

in nature, with rare exceptions. The various speciflock or herd, of the finest forms and qualities, tost r ideas that profits are to be gained by lucies of sheep prove this principle. Dry countries however near the blood, will generally ensure aphis in the lottery of chances, in preference to the are best, for all, as they require little drink, and good race. But when the parent-stock is small in slow but sure rewards of industry, economy, and wet soils produce diseases. Vet fenny countries, number, and lept too long on the same farm, the brudent management. and course hites (especially if salt,) are favourable experience of many respectable breaders is decito some kinds. The Lincolnshire and long wooled, sively favorable to changes and crossing; excepwill thrive in such situations, and with such feed, tions there are to this position; and so there are where fine fleeced sheep would perish or degene- to every general observation and practice. It is rate. In our zeal for fine wooden sheep, we over- | zenerally agreed, that the male stamps the chalocked this principle, and believed that any pastures would suit them. The Cheviot sheep deligit in mountainous ranges, often covered with snow; and the Shetland race in short bites, salt air and barren browsing; yet the fleeces of the latter are finer, though scanty, than those of the Merino. Instances of other animals might be adduced. Old pastures, dry and elevated, are best for sheep, and pe terable to artificial grasses. Of such grasses Mr. Cike, of Norto k.in England, finds the cocks foot, your orchard grass.) constantly fed, the most eligible. He inoculates a clean fallow field with sods of old lay, three inches square, and the same distance apart, to renovate old pasture, so valuable it is deemed. His fields are well cleaned, by his row-culture, which he extensively and profitably practices. New countries produce no proper pastures, generally, for fine fleeced sheep, though they may be selected spots. The sheep for such countries, should be those of the heavy fleeced and long wooled breeds. Prairie countries, it would seem, are peculiarly calculated for them.

Household manufactures are of the first import ance; and practical farmers should breed heavy fleeced and worsted or long woolen sheep, for com-Bion purposes, in such manufactures, as well as for marketable carcasses, even in old settlements and districts of country. But for any flock a better mode of providing their keep through the winter and spring months, must be introduced. Succulent food, consisting of carrots, potatoes, Swedish, or other turnips, Mangle Wurtzel, &c. must be provided .- Sheep out of condition are most worthless stock .- Wool or mutton can no more be produced branches of husbandry. Locality is therefore, o from a starved flock, than can a profitable crop be gathered, from a steril and ill cultivated field. No question is intended to be discussed on the subjects of large manufacturing establishments, or fine wooled sheep. Enough, both of experience and discussion, has already been exhibited, to enable every one to form his own opinion. Under prudent and intelligent direction, both of these great sub-field as in newly settled countries, let us apply our jects of pub ic prosperity will settle down to their proper standard, and where that is exactly to be found, only time and experience, faith, full and uncring monitors, can, with any precision determine. See Vol. III. Philad. Agric. Memorrs, pag - 362, et -eq.

Our breeds of horned cattle particularly, are too little attended to, and dairy cows, especially, are with difficulty obtained. True, the demand to them is much increased. But this should operate as a stimulent to multiplying their numbers an attent on to their breed, which requires different qualities, in many respects, from those fit for the kinfe. For this reason, a variety, in breeding cattle for the specific purposes to which they are devoted, should be carefully stom d. Mules ar

racter of blood and breed on the progeny.

cionsly for individuals.) regulate themselves England, extravagant speculations in sheep, were ors had \$4,000 sheep; and it enacts, that no peron shall hold more than 2.0! Religious communities and characters field the largest flocks, and thus depopulated the country, and forced the 1 flor the most part saluted him on his journey. bouring classes into mendicity and coines, for want of employment. They sirew on themsely beir dissolution, and restraints on their soldipropensities, by thus affording to this arbitrary monarch, some plausible protexts and many jutifia le motives, for his fatal hostility towarethem. See an interesting paper on the poor, an Foor Laws; and Bath Papers, 14th vol. page 45, et seq.

Each causes have in no small degree, contributed to keep the plough idle in Spain, and other countries, where according to the quaint phrasriogy of an old poet, "sheepe have eaten men uany a vere;" in place of " men cating sheepe." Instances, however, of excessive atmse, are no ar gaments against breeding these highly valuable inimals, in numbers adequate to our prudent de mands for them.

Great flocks may be kept, in parts of our conntry in which they would not interfere with other primary importance. Lines of states are well for jurisdictional purposes. But local projudices are injurious on the great national scale. Entu ! wants plentiously supplied, will bind us in band of common interests; and we shall the somer become one people. If, in old districts, cattle a sheep cannot be so advantageously raised or fatellorts where they are most beneficial. What he beral nand was not gratdled by a recent influx of prime beet cattle, from the western country; some of them preferred, by our victuallers, to from it, failing the king in 1 23 compromised with those of our vicinity, after having been driven more than 400 miles? The seamoard markets will thus be reduced to their proper level, for ome consumption and external commerce.

Marmer should confine his objects to such as properly fall within his system of economy; so that one member of his general plan shall not interfere with, but he assistant to another. Ther are sheep for farmers, and sheep for flock masters. Speculation should not be indulged; being adverse to nabits of industry, and tending to bring on reverses, which an husba dman is ill calculugarly valuable; but are not so generally used as lated to bear .- Extravagant speculations, in any they should be. I would be well to spread time airsuit, defeat their own objects, by lessening long lived, hardy, and laborious anunal, of the best the value of an article increased beyond the dekinds, through our country. Breeding in and in |mand; and, in such case a kind of reaction rei. e. from the same family, is a subject of diversity fluces its price below its real estimation. A farof opinion. No doubt a selection from a large mer should sedulously avoid propensities wince.

(To be concluded) MANAGEM WARM

A Fiew of the Agricultural Condition of the lower counties of Maryland.

Nothing can present to the traveller's eve a Against keeping an unreasonable number of more dreary and miserable aspect, than the condiherp, there have been, recently, ample warnings, from of most parts of the lower counties on the Such excesses, geograffy, but. (for the time, inju-western shore of Maryland. If he has ever passed beyond the Delaware line, and from thence astward, he is forcibly struck with the gloomichecked, (as far as legislative interference could be so of the prospect which presents itself in this accomplish, by lows.) In the time of Reary VII, section of the state. Dreary and uncultivated an act of Parliament recites, that some flock-hold-byastes, a barren and exhausted soil, half clouthed e croes, lean and hungry stock, a puny race of orses, a scarcity of provender, houses falling to cay, and fonces wind shaken and dilapidating,

> It would but ill become a citizen to triu aph in be wrotchedness of his parent state, but it best recomes him to point out errors which have led o, and which if not timely repaired, will even-

nate in total ruin.

The cultivation of tobacco as a sole and entire crop has brought this scene to pass. The origin fits culture, the colonial condition of Maryland, on the policy of England to encourage its growth, ir subjects more suited to the pen of the historia, or the writer on pl ntation trade, than to the papass of an essay. Yet a lew remarks are nessary to the complete understanding of the prent cond tion of this part of the state.

English colonization began in the reign of James was conducted under the immediate adminiscation of the crown, engaged in under the sanction of roy I charters, and the settlement and rade ordered and regulated by the king and priy council, without any participation of the parment or commal legislature. The great object of the plantation regulations was, to encourage olonial productions, in preference to like artides from other countries, and to require of the monies that a l their productions should be sent

England in English shipping \* For acco being an indigenious plant thrived well o Virginia, and notwith-tanding the capricious uslike which James I, concerved against it. met with eucourage went from him and his privy counil. Although at first it was prohibited by proclamation, yet the customs which used to be received the Virginia company, and consented to receive a uty of 9d per pound in lieu of all charges, and re company were to have the sore importation, pon the express condition that the whole prod cion of the colony should be brought to England. + in 1684, the importation of tobacco into England or Ireland was prohibited by proclamation, exopt from Virginia or the Somer Islands, and except in ships belonging to English subjects. Jan es also prohinted the planting of it in England or reland, or in the isles to the same belonging, tin the following reign, in 1039, Sir William Berkely as directed to inforce these regulations.

Maryland was planter by Cecilius Lord Balf. more, in the reign of Charles II, and like Virginia

<sup>\*</sup> Reeves, L w on Shipping.

<sup>†</sup> Chalmer's Political Annals 52. + Ibid 67. | Ibid 132.

engaged in the cultivation of tohacco. In this ty of starving every thing exceeds that of any occasions great difficulty in procuring proper imforfeiting it or 40 sh for every rod of ground so planted. This penalty was increased to L 10, by 15 Car. 2 ch. 7, sec. 18, and a still stronger act was passed 22, and 23 Car. 2, ch 26 Sec. 2.

This great article of produce being thus encour a red by the British crown, privy concil and parliament, it is no wonder that its cultivation was so generally adopted in the lower counties of Mary land. The numerous rivers in the state affoded a great facility of transporting this bulky article to market, a new country and virgin soil afforder the means of producing it of the finest colour, with little trouble and small expence, and each cultivator being formerly his own shipper, he united lumself, the profit of the merchant with the gains of the planter. But those circumstances are greatly altered. True it is, Maryland still has her numerous rivers, but no longer possesses a new country and virgin soil, and the planter must now be contented with the sales of his crop, to the stave of a hogshead.

It has been the fortune of Maryland, to make tobacco a sole and exclusive crop, for though Indian corn, wheat, &c. are put in the ground, those crops are left to struggle for themselves, it being a favourite maxim of the planter "if I can sell tobacco, I can buy corn." It would be a great gain to the State, if the planter could be induced to cultivate tobacco with a proper rotation of crops By this means his lands would be enriched, and the quantum of tobacco disminished, in order to secure a proper succession. True, he could not boast on his inspection day, of the number of his hogs heads, nor could be at the county court vaunt of the aggregate sum he had received, but he could shew a healthy, fat and vigorous stock, the object of the victualler's search, grateful negroes, well fed and well cloathed, his houses, his grounds, his fences, in short every thing around him in a progressive state of improvement; and he would have the planter has not; money, at all times, to pay his bills.

The labour bestowed upon tobacco, is greater than any other crop, and its profit is not proportionale to that labour. Its enormous consumption of labour, and its diminutive returns of manure, the unhappy horse, pines to a skeleton. would startle even an old planter, to see an exact account of the labour devoured by an acre of tobacco, and the preparation of the crop for market. Even supposing that crop to amount to the extraordinary quantity of one thousand poundhe would find it seldem, if ever, producing a profit on a fair calculation. He would be astonished to discover how often he had passed over the land and the tobacco through his hands, in fallowing hilling, cutting off hills, planting, replantings, toppings, suckerings, weedings, cuttings, picking up renoving out of the ground by hand, hanging, striking, stripping, stemming and prizing, and that the same labour, devoted to almost any other employment, would have produced a beiter return by ordinary success, than tobacco does by the extravagant crop I have supposed.

"Though its profit is small or nothing, its quali-

on must be essarily become cadaverous, and its cultivators squalit. Nor can it possibly diffuse over the face of the earth, or the faces of is inhasitants, the exuberance which flows from fertilization, nor the happiness which flows from plenty.";

One of the greatest exils resulting from the culture of tobacco, is the thoughtless extravagance it produces among its planters. Being raised as the only article for sale, the whole of the crop is commouly sent to market at the same time, and being converted into cash, by the magnitude of the sum. induces its possessor to fancy himself rich, and to act with that indiscretion which large sums profinds himself moneyless, and compelled to ask for by land, to the lower section of the western shore, credit upon the faith of the coming crop.

it, at those periods of the year, when other crops require it; for this plant requires constant and of uncultivated land, and at first he is astonished speculator, too often owed for before his beds are unremitted attention, and is therefore, perpetu- to think from what regions that large compact and sown, or promised to the wily purchaser for the ally interfering with all other crops, by which payment of debts before the inspector has seen a means, the grain and grass crops are neglected. and often left to Providence to rear them, with scarcely any aid from the cultivator.

One of the greatest curses which afflicts those counties, is the negro population, whose interest is in direct opposition to that of the master, and which constantly seeks to cheat him of all it car. bestow, the daily labour of the slave. This population drives to the west, the while industrious poor man, who unable to find employment, is compelled to go abroad in search of it to happier regions, where industry prevails, and slavery doenot rob the cultivator of half his gains. The nu merous thefts which are committed on most plan tations, are so great, that nothing is made for market. The pigs are stolen before they are half grown, the hogs, the poultry, in fact every thing upon the plantation is the constant subject of de predation by the slave, and in the spring or open weather in the winter, when ploughing should be done, the horses are so lean for want of provenby the frequent sales of his frequent crops, what der, that they cannot half perform their duty. And to what is all this owing? To the culture of ohacco as an entire crop; for as neither slave nor horse can eat tobacco, and as the master is most generally unwilling or unable to buy, so the slave obeying the impulse of hunger, steals, and

It seems to me, while I am engaged in writing this short essay, that I could fill volumes upon the subject. The demoralizing consequences of rais ng any crop, which is neither fit for food or rai. nent, the miscrahle policy which can adopt such crop for culture, leading to a spare, scattered and aretched population, a population composed of whites, too proud, and of slaves too indolent to Libour, press so strongly upon me, that I can with difficulty hear the narrow confines of an essayist,

From a thin white population, scattered over an extensive surface, follows many evils. The landare held in too large quantities to be cottivated with profit and ease, and cannot be manured, but at great expense and labour. Gnod makers of agriinitural implements, are lew in numbers, which

reign it was enacted by 12 Car. 2. ch. 34. that no other crop. It starves the earth by producing but plements of husbandry, upon the most modern and one should plant tobacco in England. Wales, little litter, and it starves its cultivators, by pro-approved construction, and having them repaired Guernsey, Jersey, Berwick or Ireland, on pain of ducing nothing to cat. Whatever plenty or splen when procured. Where the population is thin, dour it may be stow on its owner, the soil it leeds good examples in farming, seldom occur, improvement travels with slowness, experiments are few, and the judgment and experience of more populous districts, not pursued for want of hands interested in the soil or crop, and possessing sufficient energy and industry. To all this is to be added, the difficulty of cutting the crops in harvest time. for a want of a sufficiency of labourers. It is then evident that the planter has many serious difficulties to encounter before he can become a farmer.

And how is all this to be remedied? By two causes, which will produce corresponding effects. First, by not raising tobacco, as an entire crop, and secondly, by increasing the white population luce, until at the expiration of a short time, he of the lower counties. When a person travelling eaves Baltimore as the beginning of his route, he Tobacco requires attention to be bestowed upon is astonished to find in its immediate vicinity, as well as at a more remote distance, large wastes populous city, draws its supplies of animal and vegetable food.

I have often thought it practicable to turn the ide of emigration, which flows without an elb from the eastern to the western states. It requires no argument to prove, that if potatoes and other commodities can be raised in New England, and sold in the Baltimore market, with profit to the cultivator, that the same farmer possessing his vankee habits of industry and frugality, and unncumbered by the drones of negro slavery, setled upon the banks of the Chesapeake, might in i few years amass a considerable fortune. Would t not be easy, for the patriotic, to persuade the European emigrant to arrest his footsteps jourseving to western wilds and impenetrable forests, and employ his skill and industry in reclaiming lands, waste for want of population.

I contend that in this scheme Baltimore is deeply interested. While she is projecting canals and turnpike roads, to bring into her vortex distant internal commerce, she is neglecting the means which nature has placed within a day's voyage of her numerous wharves, and expanded basin. Other aval cities are springing up, the bosom of the Mississippi and her tributary rivers, are wafting dong the manufactured productions of Europe, and nothing can supply this loss of trade to Maryand, but by inviting and inducing a manufacturing and farming interest to remain in the state, where there is ample room, but little skill, and oo often, still less industry. AGRICOLA.

ON THE MURRAIN.

A DISEASE INCIDENT TO HORNED CATTLE.

TO THE EDITOR OF THE AMERICAN FARMER.

The true epidemic Murrain, then seems to be a ow, or typhorid fever, and probably peculiar to lack cattle, although it had invaded all the brute onimals of Egypt, in a special instance, that being expressly a deviation from the ordinary course of cature-a curse. At all events, it cannot be corectly identified with any human epidemic; for not ally are the general diseases of the different orders of animals distinct, but they vary little in the same species, even under different climates and conditions. Natural diseases like the animals

† Arator 267, 263.

transmutation of the vaccine and various the fire form, so much as the materials of which such thorn does not thrive so well, neither is it so defensive, the one, as the generation of the hybrid mule, is an association should be framed, and the funds the prickle being very short, scarcely fit to get the name question the unvaried order of nature, in all her of every subject on which it is more difficult to kinds, and very little progress was ever made in this discriminations. Nor are the diseases of the lower excite the necessary zeal and liberality, than on animals, either numerous, complicated, or necessarily very fatal, excepting always the ravages of some dire ul epidemics. By habits of domestica tion, they become more frequent, multiplied and diral attendance should be paid for, and a preaggravated-thus the horse, naturally, perhapthe most perfect, as well as the most noble brute forded for reported cases, histories and dissecanimal, may be pampered almost to the gout, and tions. become as sensitive to a homid atmosphere, as the tenderest bantling :-

"Nurs'd in soft lap, and fann'd wiith fragrant breath." Yet their artificial, as well as their natural diseases, are uniform and susceptible as the human. of exact definition, classification and treatment. The desideratum is, who are capable and willing one of importance to the interest of Agriculture, and will to afford it? I have shewn that object has not been accomplished, and never can, except through the American Farmer. I shall endeavour to cast what the instrumentality of physicians. Will or can they do it? This is a question, in my opinion, well worthy to partake of the very creditable zeal of the farmer's toil, is searcely necessary to mention, as so lately manifested on agricultural subjects. The all must know, that to plant or sow without fencing, veterinary schools of France and England, have greatly advanced the knowledge and treatment of brute diseases, but deriving incidental aid only from professional men, they are compelled to best adapted to the purpose of fencing, and upon which proceed without method, and not pussessing the we can place reliance. Whether living or dead materials elements of any system, as medical institutions, als, the former increasing in strength by age, the latter they are comparatively inefficient. Time, with diminishing in the same ratio, by the hand of time.

The comparative expense, of labour and materials are comparative expense, of labour and materials are comparative expense. well concerted efforts, would remove such defects, and would attach credit to the A verican kind) as it stands in the neighbourhood of the writercharacter, to do it. The physician will not stop where timber is advancing in value every year, coming behind others, in support of measures well adapt- more into requisition for building, as well as for fuel ed to that purpose. But their service would not and a variety of purposes besides the dividing and subbe so simple and certain as may be supposed. The laws and structure, in all animal life, are essentially similar, but the capacities of the different especially in the grass farm, by frequent shifting the functions and their relation to each other, are so stock. Stone, is an excellent material for fencing by dissimilar, as to leave little resemblance in their diseases. The physician being an utter stranger to their symptoms and character, must study and connect them, de novo, beginning in a chaos. His only advantage, is that his preparatory knowledge of the laws, and structure of animal life, and should not be neglected, whilst they are in the way of of the action of remedies, enable him to do so. The diseases of domestication, are with little exception, those only common to man, and other animals, and in which practical medical knowledge can be of any advantage. While, therefore, attention and research would be necessary, on the part of the physician, the credit, satisfaction and benefit resulting therefrom, would allord considevable reman ration; besides there cannot be a belong to medical study, with a view to human anatomy and a fortiori, what comparative diseases can contribute to the medical art. Other inchements however, must be afforded, and the necessary facilities provided to secure efficiency to this undertaking.

For the present, I will close this accidental dis cussion, by merely suggesting, that a well select ed MEDICAL BOARD, attached to each agricultural society of the state, with honorary members, &c might readily become a medium through which the objects would be accomplished. Should this intimation be honored by the notice of those so-

themselves, have always existed, and will proba-creties, I may hereafter propose a pian adapted to agod. The first show named, is more bly endure in the shape they were created. The lift, should there appear to be any difficulty on that appearance in the leaf, to the European thorn, that was introduced here by some of the early transmutation of the vaccine and variolous dis-ting in appearance in the leaf, to the European thorn, that was introduced here by some of the early transmutation of the vaccine and variolous dis-ting in appearance in the leaf, to the European thorn, that was introduced here by some of the early settlers, but far superior in point of defence. The foreign necessary to defray its expenses:—a department of a thorn, compared with the cockspur or the Virginia any other. A physician's time is his farm and his fortune, and should not therefore, be too deeply drawn on gratuitously. To a certain extent, memium of honor or emolument, or both, always al

For the American Farmer.

#### HEDGING.

The subject of live fencing or hedging with thorn, is some day gain a possession of some of the columns of

The advantage of safe enclosures to secure the product would (in this country) be a useless labour; yet from too much mattention to this necessary part, how fre quently does vexation follow from loss of crop.

The next enquiry is, what kind of materials are the

will be given hereafter, (on a given portion of each now well understood, in some of our tarming districts, that less fields than formerly, give a better product, because she is just creeting them into walls, in such situations as they abound, and must be removed out of the way, for the times doubts which you might resolve by your better cultivation of the land. They cannot be better disposed of, than to raise them into fencing, a practice many years in use in the neighbourhood of the writer, farming, though too heavy to transport any considerable distance for that purpose.

tensive purpose on various soils and climates, so far as the grain. the observations of the writer has extended. There are various kinds within our vicinity. The most predominant as a native, is the cockspur kind, generally known by the name of the Newcastle thorn, I suppose from the abundance, both native and cultivated in the neighbourhood of the town of that name in Delaware state, where it is seen to thrive remarkably well. It has doubt, that, strictly speaking, such invistigations, a thick green serrated or indented leaf, the upper side remarkable for its glossy smooth green, rather paler on diseases, since we all know what comparative the under side, the thorn or pike, strong and sharp, diseases, since we all know what comparative diseases from one and a half to three inches in length. There make a hedge with care and attention

There is another kind, termed in II. Marshall's catalogue of American trees, the Virginia parsley leaved thorn. This shrub abounds as I have been informed by Botanist, (Bartram) through all the southern states; upor ing eastward of the Potomac river, though abounding plentifully on the western shores, from whence the were first obtained and introduced into Delaware, ab ... 1507, since that time they have been propagated through a part of Delaware and Pennsylvania states, with good success, making an excellent hedge, where rightly manufactors in his own words:

themselves, have always existed, and will proba-cieties, I may be reafter propose a plan adapted to aged. The Virginia thorn, as it is now named, is more are to be seen in early settled neighborhoods; one instance of a late planted hedge I have under my notice, and have observed its progress 6 or 7 years, but have no reason to give it a preference to our native kinds, therefore shall leave it without recommendation, and return to the Virginia, or as Marshall terms it, the parsley leaved thorn, which is easily propagated from the seed, and will vegetate the first year after they are produced; the Newcastle or cockspur, will not before the second, and a great portion of them not until the third year; which circumstance is very discouraging to the cultivator, his ground becomes possessed by some other product that prevents the young thorn from thriving, and in attempting to keep it clean, he runs the risque of destroying what he would wish to preserve, not knowing when to look for the appearance of the desired plant, above ground, therefore often loses the labour already bestowed

The Virginia shrub is not only easily propagated from the seed, (more of which, shall be noted hereafter,) but thrifty if taken care of when young and has an abandant armour of prickles, about an inch long, and as sharp as needles, (comparatively speaking.) A certain uniformity in growth, that gives that uniformity to the hedge, that is not to be found in any other kind; more managable in the training process, than any (To be continued ) other brought into use.

#### INTERESTING EXTRACTS.

Continued.

 $\mathcal{N}_{0},2....$ Athenian Agriculture, Abbe Barthelemy $^{*}s$ Travels of .Inacharsis ... [Concluded ]

Let us suppose that you intend one day to exercise the noble profession which I follow. I should first endeavour to prove to you that all your care and all your time should be devoted to the earth, dividing of farms, as the population increases; and it is and that the more you shall do for her, the more she will do for you; for she is only so beneficent

To this principle I should add, sometimes rules confirmed by the experience of ages, and smileown observations, or the knowledge of others. I should say to you for example: Choose a fayourable situation. Study the nature of soils, and and with good effect, both for defence and duration, and the manures proper to each production. Inform yourself when it may be necessary to mingle earths of different kinds; and when the earth Thorn is the best substitute to answer the most ex. should be mixed with the dung, or the dung with

If the subject in question were the cultivation of wheat in particular, I should add: Redouble your labours. Do not commit to the earth the grain you have last reaped, but that of the preceding year .- Sow sooner or later, according to the temperature of the season; thicker or thinner, according as the earth is lighter or heavier; but always sow equally. Does your wheat run up too high, be careful to cut it, or turn in sheep to are a number of other kinds, natives also of the Dela- browse on it: for the former of these methods is ware, but of inferior quality, yet they will any of them sometimes dangeroos; the grain becomes long and thin. Have you much straw, only cut down half of it, and burn what remains on the ground. it will serve for manure. Lay up your wheat in a dry place; and, that it may keep a long time, my own observation, I never found a native stock, grow-d., n it spread it, but heap it up, and even wa-

nuthymenes made several other remarks on a cultivation of wheat, and enlarged still more n that of the vine. I shall give you his observameans of rendering it fruitful. A number of practices relative to these various objects, and freintroduced in the different districts of Greece

Almost every where, vines are supported with props. They are only manured once in four years, or not so often; more frequent manuringwould at last burn them up.

The attention of the vine dresser is principal ly directed to the pruning; the object of which is to render the vine stronger, more fruitful, and longer lived.

In a ground newly cleared, a young plant should be pruned in the 3d year, but later in one that has been long cultivated. With respect to the season. some maintain that this operation ought to be early the eyes, or buds are in danger of being dried up plant them. by the cold : and in the later, the san is exhausted. and flows over the bads near the wound.

Others make distinctions according to the nature of the soil. They say that the vines in a thin Tie former, said he, come up sooner when we light in the neighbourhood of wild pomegranates, and dry ground should be pruned in autumn; make use of seed which is too or three years old, and garden promegranates in that of myrtles. † It those in a cold and moist one. in spring: and | there are some which it is advantageous to water is added, in fine, that the difference of sex must those in a soil neither too dry nor too moist, in with salt water. Cucumber (a) are sweeter when be admitted in trees and plants, an opinion which serve the sap necessary to them, the second lose days .- They thrive better in ground's naturally a agined to exist between animals and the other that which is superfluous, and all would produce an little moist, than in gardens where they are fre-productions of nature, and afterwards confirmed execulent wine. One proof, say they, that in moist quently watered. Would you have them early, by the observation that palm-trees do not bear grounds pruning should be deferred till the spring sow them first in pots, and water them with warm fruit unless the females are fecundated by the beans, which absorb the humidity of the soil, and water. To render them large, care is taken as

tion, Whether vines should be pruned long or should be covered, and kept hung up in a well. short? Some say this is to be determined by the be left, and the vine should be pruned longer.

The vines which hear many branches, and few and two fect in breadth. produce much fruit.

for oth r reasons, which it would be too tedious to made to grow large, on the tree, by covering them enumerate. At other times, we see them pluck off some of the leaves, that the clusters, being more exposed to the sun, may ripen sooner.

nearly dead with old age, remove the earth on one loses of cucumber, but these expressions not being suffiside, and pick and clean the rootts, applying to ciently clear, I shall content myself with referring my side, and pick and clean the roots, applying to reasers to the modern critics, as Jul. Scaling, in Theophr on the contrary something so hostile to the Thorn, the them different kinds of manure, and covering this. Plant, the 7 cap 3 p. 74 , Bod. a Stapel, in cap. hedges often decline and perish in the neighborhood of them with the carth. It will produce scarcely 4. ejusd. libr. p. 782, and several others.

-4

of the young plant, the labours it requires, and the years, it will have regained its former vigour. It you afterwards perceive it begin to languish, again loaded with productions foreign to their nature! repeat the same operation on the other side; and quently contradictory to each other, have been these precautions taken every ten years, will in ed by grafting, by which the roughness and soursome measure render your vine immortal.

a vine-shoot, and cut it lightly in the part which is which is ordinarly performed on trees of the same to be set in the ground; take out the pith from species; as, for example, a fig is grafted on anoththis part, unite the two sides separated by the in-fer fig-tree, an apple on a pear tree, &c. cision, cover them with wet paper, and plant it in the earth. The experiment will succeed better, if ed by knats that come from the fruit of a wild the lower part, thus prepared, he put in a sea-oui-[fig-tree, purposely planted near. Yet those which on before it is planted. Other methods are known ripen naturally are preferred, and the dealers to produce the same effect.

Would you wish to have on the same vine, both this difference. black and white grapes, or clusters, the berries of which shall be some black and others white, take when the tree is watered with cold water, and performed, because inconveniences may result a shoot of each kind, bruise them in their upper pigs dung laid round the roots; that almouds have from pruning either in winter or in spring, since part, so that they may closely unite and incorpo-more flavour when nails are driven into the trunk in the former case the wound cannot close, and liate, if I may so speak, tie them together, and of the tree and the sap suffered to flow out for some

of plants of the kitchen garden and fruit trees. ble influence on other trees; that olive trees dewinter. By these means, the furmer would pre their seeds have been steeped in milk for two was at first founded on the analogy that was imand a part of the sap suffered to flow off, is the water; but I must tell you that they will have less down or dust contained in the flower of the male. custom we have of sowing in vineyards barley & flavour than if they had been watered with cold I his species of phonomenon must first have been prevent the vine from exhausting itself in useless soon as they began to be formed, to cover them for in Greece the palm trees raised for the orna-The vine dressers are divided on another ques-kind of tube. To preserve them a long time, they bring them to perfect maturity.

nature of the plant or the soil; and others, that it the spring. The trench should be digged at least which advantage they owe less to the industry of depends on the quantity of sap in the branches : if a year before they are planted. It is usual to leave the cultivator than the influence of the climate. that is abundant, several very short shoots should it a long time open, as if it were to be fecundated We as yet are ignorant how far this influence will be left, that the vine may produce more grapes : by the air. The dimensions of the trench are vari correct the sourness of those beautiful fruits but if there is but little of it, fewer shoots should ed according as the soil is dry or moist. It is which hang on that eitron-tree lately brought from usual to allow to it two feet and a half in depth, Persia to Athens.

be pruned long, and thuse lower down short, in are known and are familiar to all cultivated na-lights of a country life. order that the vine may be strengthened at the tions :- and which, replied I immediately, do not see the vine-dressers strew a light dust over the to increase the size of the pulp of that of other grapes to defend them from the neat of the sun, and fruits and especially, pomegranates, had been efits ought to be accompanied by the graces.

in the ancient writers, there seems reason to suppose that, at the time of which There speak, the Greeks were Would you wish to restore youth to a vine acquainted with melons, and considered them as a spe-

We must be particularly attentive to the nature any fruit the first year, but, after three or four with an earthon yessel; and that trees were compelled to bear fruits of different kinds, and he

> This latter producy, said Eutlivmenes, is effectness of the fruits of wild trees is corrected. Al-To obtain grapes without stones, you must take most all garden trees undergo this operation,

> > Figs ripen sooner when they have been puncturwho sell them in the market never fail to mention

It is said, that pomegranates will be sweeter time; and that olive trees do not thrive when they We afterwards requested from Euthymenes are more than three hundred stadia from the sea." some instructions concerning the different kinds It is likewise said that certain trees have a sensiobserved in Egypt and the neighbouring countries; with a pot or vessel, or to introduce them into a ments of gardens bear no dates, or at least never

In general the fruits of Attica have a sweetness Trees should be planted in autumn or rather in not found in those of the neighbouring countries,

Euthymenes spoke to us concerning rustic lagrapes, require that the roots at the top should I only relate, said Enthymenes, practices that bours with pleasure, and with transport on the de-

One evening, when we were seated at a table, heroot, and at the same time the branches at the top sufficiently excite their admiration. What time, fere his house, under some superb palm trees that what reflection must not have been necessary to arched over our heads, he said to us: When I walk It is advantageous to prune young vines short, observe and gain a knowledge of the wants, the va- in my fields, all things smile & seem embellished that they may grow stronger; for vines which are rieties, and resources of Nature,-to render her with new ornaments in mine eyes. These harvests, pruned long produce indeed more fruit, but soon-doeile, and diversify or correct her productions ! trees, and plants, exist only for me, or rather for t was surprised at my arrival in Greece, to see the necessitous whose wants I relieve. Sometimes I shall not speak of the different labours which trees manured and pruned; but how great was I create to myself illusion to heighten my emoythe vine requires, nor of several practices, the my admiration to find that the secret had been ments, and the earth then seems to accompany utility of which is acknowledged. We frequently discovered to diminish the kernel of some fruits her benefactions with a species of delicacy, announcing her fruits by flowers, as among men ben-

> An emulation without rivalry forms the bond of the umon between me a id my neighbours. They (a) On Melons .- From some expressions to be found frequently come and take their places around this table, which was never yet encircled but by my triends. Confidence and franknes reign at these

> > \* Eleven leagu s and one third-

†There is in the nature of the Walnut and the Cedar these trees .- Ad. . Im. Farmer.

repasts; we communicate to each other our discoveries; for, unlike to other artists who have secrets, each is only emulous to inform himself and instruct his friends.

### INTERESTING.

The following " REMARKABLE CONFESSION OF A CONDEMNED MALEFACTOR, has been translated from the German, and published in the New Monthly Magazine for the present year. It was originally published in the form of a letter, from the clergyman who attended the Malefactor in prison, and to whom the confession was made -The introductory matter is omitted as not necessary to an un derstanding of the confession, and as calculated to extend the article to too great a length. It may however, be proper to remark, that the malefactor at the time of his execution, was but two and twenty years of age

From the London New Monthly Magazine My father was a respectable tradesman in this town and I, his only son, was educated with all possible care, under his immediate inspection, to succeed him in his business. From my earliest years, my disposition was silent and reserved, and the perusal of instructive and entertaining books, the dearest, and almost sole employment of my leisure hours 1 avoided, from choice, the noisy pleasures of the world; and my parents cherished me, on account of this exclusive attachment for my home, with redoubled affection. In my seventeenth year I lost my mother. My father continued single for a considerable time longer in content and happiness; he was actually approaching his sixtieth birth day when he had the weakness to fall in love (if, indeed, the passion could be so termed) with the youthfur daughter of one of our neighbours, whose only riches consisted in her extraordinary beauty and unsuffied re putation. He formally demanded her hand of her parents: and the latter, who had looked upon him as a thriving, wealthy tradesman, compelled their child, partly by threats, and partly by persuasion, to pledge her faith to him, rather with her lips than with her heart The wedding day was already fixed, when my father fell dangerously ill: he, however, soon partially recovered, and although his physician, and some still remaining weakness counselled to delay, he paid but little attention to either, summoned up all his strength, and celebrated his marriage as well and as gaily as his situation permitted. But on that very day whilst seated

amid his friends, enjoying the delights of the festive

board, he suddenly became so faint and ill, that he was

obliged to be carried from the table to his bed, from

which he never again arose. He lingered in this state

a whole year And it is certain, incontestably certain,

that 'his ill-starred marriage never was consummated.

Meanwhile the maiden whom he had espoused, assumed the name of his wife, and in reward for the resignation and cheerfulness with which she supported the toils, and fulfilled the duties of an affectionate and careful nurse, he bequeathed to her by his will his whole property; and left me, his only son-against whom he had never had cause to utter a single complant-with the exception of my scanty legal portion, peonyless! How much reason soever I might now ap pear to have, to hate, or at least, to shun a person who had deprived me, almost in an unlawful manner, of a considerable fortune the contrary feeling prevaled over my resentment. She was, as I have already observed, young, beautiful, of an irreproachable charac ter; mild and obliging towards every body, and from the first moment of our acquaintance, peculiarly engaging in her beliaviour to me. Little then aware of the reason, I vet sought her company at every leisure hourdelighted in her conversation-often asked her opinion on the concerns of the house, and soon observed with secret pleasure, that she was on her part anxious to obtain mine, even on trifles, and followed my advice with the most scrupulous attention. Thus passed on some months, and I thought not on the danger of our growing attachment: but when she daily became dearer to me, when no place without her any longer had charms for me, and sleeping or waking, her idea was constantly present to my thoughts; then, too lat , I observed the flame that glowed within my breast. Terrified at the precipice on which I stood, and resolved as much as possible to avoid one who never could be mine, I made a report of the whole affair to the Ecclesiastical on, ere I reflected how I could succeed in ascump her,

I not been withheld by the dread of the comments of my fellow citizens would make on my conduct, by whom it might have been deemed the effect of anger against my parent for so unkindly disinheriting me-by the present situation of affairs in our business, to the prosperity of which my presence was absolutely indispensable lastly, by the evidently approaching dissolution of my still beloved father

Mowever, I maintained, during some time, my resolution of shunning her society; but no sooner was she aware of this, than, on the first opportunity, following me to a sequestered part of the house, she implored me with tears in her eyes, to tell her the reason of such an alteration in my conduct, for which she had never intentionally given me any cause. I stammered out something in the form of an excuse, but all that I could say, was, by her, gently, yet clearly refuted; and at last, as my agitation increased, and some words escaped me, which but too well explained my real feelings, she could no longer restrain the impulse of her affection, but throwing herself into my arms, avowed her attachment to me. This event put an end to all constraint on my part, and no longer endeavouring to disguise my love, I still forced myself to try to impress on her mind the impossibility of her ever being mine, and the absolute necessity of an eternal separation from her; and after an heart-rending effort, burst from her in agony and despair. But she clung to my arm, asserted that she was but the legal, nominal wife of my father; set before me the certainty of the speedy removal of that obstacle, and assimuated the delightful hope, that a mere name would be the insuperable barrier to the accomphishment of our mutual wishes.

Her urgent entreaties, and the confidence with which she adverted to the latter alluring argument, finally overpowered by weak opposition. But by that holy name, before whose judgment seat I am about so soon to appear, I swear to you, reverend sir, that no thing passed between us, with which my conscience at that awful hour, can reproach me A tender embrace, and reciprocal assurances of attachment and constancy, were all that I wished for, attempted to obtain, or she permitted.

'At length, my father expired; and some weeks afterwards, she renewed her entreaties and persuasions for me to procure legal advice for our guidance. I dared not undeceive myself; but in proportion as my love for her augmented, my once confi lent hope of ever posessing her had declined. At length, trembling for her sake, and desperately desirous of putting an end to the distracting uncertainty in which I existed, I hastened to the nearest advocate, and unres rvedly confided to him every circumstance of our situation. He inspired me with hope, instantly dispatching a petition in my name to the High Ecclesiastical Court for a dispensation; but, either from ignorance or carelessness, (for I would not willingly impute worse motives to my counryman) he touched so lightly on the important point of the unconsummated yet legally concluded marrage, that a double motive, and a dark, artful design were, with too great seeming justice, afterwards imputed to edge of the magistracy, who once more resolved to inus on that account

Imagine to yourself our transports of joy, when at the end of three weeks, we received the most ample permission to marry; and from a state of tormenting anxiety, we are at once elevated to the calm confidence of bliss in our approaching union. Can you doubt the purity of our attachment, when I affirm to you, by the Omnipresent Deity, that, notwithstanding this permission, notwithstanding she was my very shadow, and watched every look of mine to obey it; though I loved her with indescribable ardour, and thought of nothing but how I might best promote her happiness, and cer tainly might with a word, have induced a woman wh loved me far better than herself, to dare every thing for my sake, I repeat that more than four weeks went by without any thing more having passed between us which we could not, without hesitation, or the fear of blame, have confessed to the severest inquisitor of our conduct

We no longer kept our love or our intentions a seeret from the world; but made open preparations to. our appea ching wedding, and by the singularity or the event, excited the curiosity and attention of our neighours, already envious of our felicity The magistracy terfered, commanded us to postpone our marriage, an

should immediately have quitted my father's house had Court. God alone knows the reason which induced them to resolve upon a new proceeding, which annuled their former decision: but sure I am, that the distraction of the unfortunate traveller, who feels himself reeling down the edge of an unfathomable precipice, cannot be compared to mine, when I was summoned to appear before them, and heard the overwhelming sentence which prohibited our union. And then her tears, her grief, her misery-to describe our feelings, would be far beyond our powers; I cannot-will not-do it-it would only give unnecessary pain to your friendly heart, and shake that resolution which will ere long be so necessary for my own support?

Here the unhappy man paused for some minutes:tears no longer to be restrain d, burst from his eyes; and mine, I acknowledge, flowed freely; he perceived them, gratefully pressed my offered hand and continued his sad tale.

The decree of the church ordered us to remove to separate habitations but neither forbad my seeing nor conversing with my step-mother, as she was now denominated, as often as I pleased. All hope had not yet vanished, of once more changing our destiny by a new representation; and as my persuasions and arguments alone witheld the wretched girl from adopting the most desperate measures; and my own misery found its only relief in her society, now b come indispensable to my happiness, I was by her side from morning till night yet still guiltless as ever

Alas! a neighbour who was often with us, and who manifested real compassion for our sufferings, had the imprudence one day to say before us, that were he in my place, he would not scruple to pursue another course -that the object of the court, was merely to extort money from us, and that in his opinion, a living proof of our love, would procure a permission for our marriage, suoner than all the advocates in Germany.

'Of what use would it now be to me, worthy sir, to boast of forbearance which can no longer gain me any advantage or avert my fate; but my own heart tells me that even this alluring sophistry would have failed to work its effect, had it not made a deeper impression on her mind than on mine. Her persuasions, arguments, and entreaties, once more conquered my resolution; and fondly cherishing the pleasing anticipation of future happiness, which her ardent imagination suggested, in a fatal moment, we followed his rash counsel

'Whilst inwardly convinced of the innocence and rectitude of our intentions, we indulged ourselves in a dream too blissful to be durable, she felt that she was soon likely to become a mother. With a tender embrace, her eyes raised in gratitude towards heaven, she communicated this intelligence to me; attempted not to conceal her situation from her friends; on the contrary, proclaimed every where, that I was the father-that she never would acknowledge any other for her husband but me, and that, already, in the sight of God, she considered me as such, trusting that the event would fa-cilitate the dearest wishes of her heart-our so long contracted union. In short, by the intentional publicity we gave to the affair, it quickly came to the knowlterfere, and summoned us to appear before them .-Neither of us hesitated to confess the whole; and the natural, though by us unforeseen consequence of our avowal, was a fresh investigation, immediate separation and imprisonment, which how ver, was, for her, mitigated to confinement to her own house. Even yet I nelieve, and my friend, the advocate, befor mentioned, confirmed me in my opinion, that the whole might at last have been happily brought to a conclusion, had not an unexpected event confounded all who were favorable to our cause, and plunged us in disgrace and mserv.

To be brief, she, to whom confinement and separaon from me, were insupportable, attempting to escape, was detected, brought back, and, notwithstanding her undition, treated with inhuman severity. At this news, my former patient endurance was changed into despair and madness. Flight and her deliverance, were from that moment, the sole and anxiors objects of my thoughts; and, in the state of mind, in which I then was, I considered but how to accomplish the first, without having imagined the means, by which I could effice the second.

I contrived to make my escape unobserved that very night; and I was already b youd the walls of my pris-

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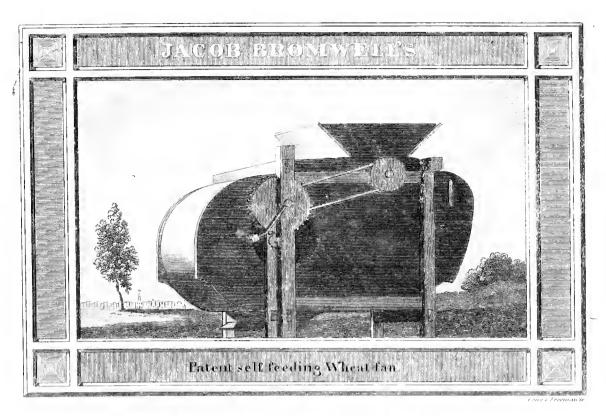
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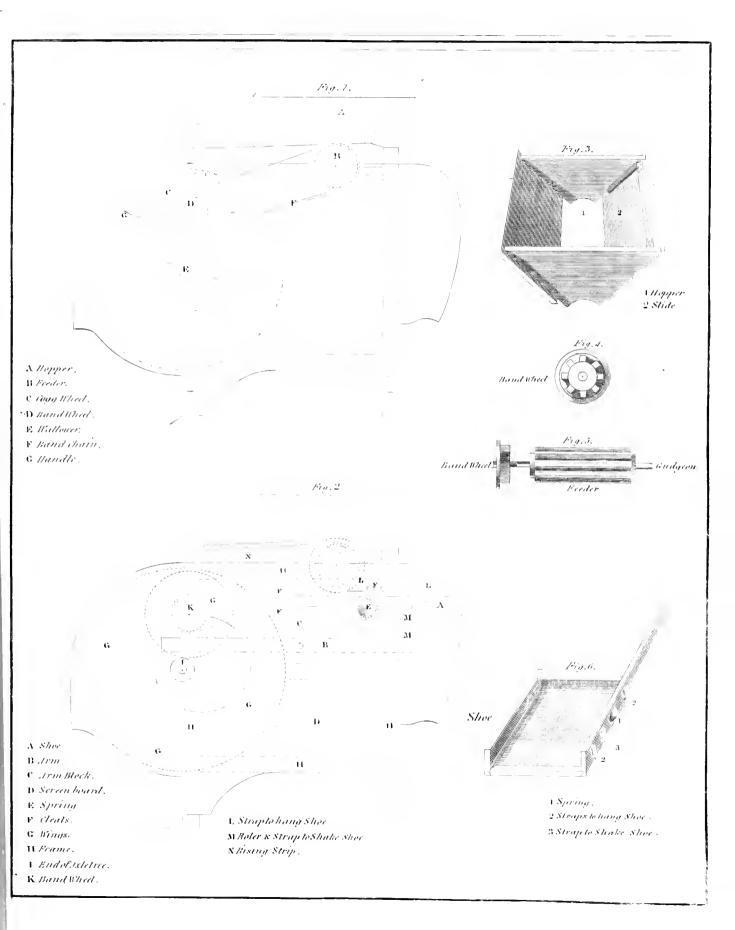




Sernifica is hereby granted to

one of MACOB BROSON FINES PATEST WINGAT FANSfor the
term of fourteen years from the 26th day of November
1818. With the firevilege of renewing the same

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The followin OF A COJ translated New Month originally clergyman and to who ductory maderstanding tend the art be proper to fi his exec

From 1 'My father and 1, his onl under his im business. Fr silent and res entertaining l ment of my l noisy pleasur me, on accou home, with year I lost m a considerab he was acti when he had the passion daughter of consisted in putation. H rents: and th thriving, we partly by the her faith to h The weddin fell dangerou ered, and al maining wea attention to celebrated h tion permitte amid his frie board, he su obliged to be which he ne a whole year that his ill-

Meanwhi sumed the r signation at the toils, an careful nurs whole propwhom he h plaint-with pennyless! pear to have had deprive considerable over my res served, you ter; mild an first momen in her beha son, I yet so delighted in on the conc secret pleas tain mine, the most sc months, and ing attachn me, when r for me, and

Aminer we so and floor and carrying her on with meor how we should live, seemed at that moment, triffes which necessity would easily and quickly teach us. How to get to her was not only d. ficulty Were Lonce taken, nothing could be more certain, than that I should be closer confined than before, and d prived of every future chance of escape. What was to be done for our preservation must be quickly done, as I could not assure myself that my absence would remain undiscovered another hour. Whilst a thousand plans, no sooner formed than rejected, rushed scross my mand, the idea presented itself of setting fire to the house, or rather wooden hovel, in which she was confined; and, amidst the alarm and confusion this would occasion, to force my way to her, bear her through the fl mes, support her in our flight, whilst my strength sufficed and to trust to circumstances for the rest. This project was no soon r conceived than executed: a neighbouring lamp afforded me fire, and the dry wooden work of the house soon burst into a flame. I was, unrecognized, among the first to give the alarm, rushed safely through the flames, and bore her, halt dead with terror and surprise, beyond the city gates. But, alas, how seidom does our strength second our will! The xertan-I had already made the weight of my beloved burthen -the length of the way, and my uwn bodity weakness from long confinement, overcame me about a m le from the gat's of the town, and I sank senseless upon the ground, exhausted by fa igue and loss of blood from a wound I had received in my neck during the fire. My unlappy partner attempts of to support me, but in vain; her weak ss required assistance for herself - Besides, we were alleady a said, our pursuers arrived, secured us, and once more dragged us back to our prisons

I was now, as I had foreseen, and dreaded, more closely confined than before, and my death unavoidable; but even this reflect on strengthened my desperate resolution, once more, to dare all hazards-to succeed or perish My j. br belonged to that class of rough har dened wretches, in whose breast every feding of humanity seems totally extinct. One day I surprised him asleep. Pespair gave me strength; I found means to get rid of my chains, stole the key out of his packet, and was already balf out of the door, when he awoke, and sprang furnously after me. I was the younger, and, in the scuffle which ensued, proved Likewise the stronger. I grappled with him, and seizing him by the thro, i, fastened him with so firm a grasp to the wall, as to reader it impossible for him to cry out for assistance I then demanded of him to swear not to betray my escape, but instead of replying, the wretch, imperceived by me, drew a knife from his pocket, with which he attempted to stab me in the back. I however, wrested it from him, and as I clearly perceived, that if he lived all chance of saving my own life w. s lost, I buried it twice in his throat, b ft him dying on the ground, and fled. Again I reached her I adored in safety; for she was, I well knew, on account of her dangerous state, allowed to be at liberty on bail-and once more we resulved to fly together. But the retributive arm of the avenger of blood was close behind me we were pursued, retaken, and now within a few days, an ignominious and inevitable death awaits me. Oh, how welcome to me is its approach t-1s it possible, think you, I can regret to leave a world, which has branded my name with infamy, and heaped upon my soul an accumulated mass of the deepest and most irremulable misery

Here the unfortunate man concluded his history, and hero cally has k pt his promise of patiently, yet firmly submitting to his fate. Oh! I could tell you much of his courage in the last awful hour - of his heart-rending interview with his miserable wife-of his repentance, piety, and holy confidence of pardon, but you must forgive me if I break off this long letter abruptly. This p or youth has become so dear to me, that I cannot think of him wishout tears; and if yours have not already follow over his meloncholy history, the blame must be upon the unskilfulness of my description, which may have weak ned the interest and compassion his unhappy fate would otherwise have excited.

## A RECEIPT TO DESTROY FLIES.

These troublesome insects may be effectually destroyed without the use of poison. Take half a tea-spoon full of black pepper in powder, one tea-spoon full of brown sugar and one table-spoon of cream, mix them well to-

## THE FARMER.

BALLIMORE, FRIDAY, JUNE 25, 1819.

In this paper we have the pleasure to insert, the first, of a series of numbers on Hanging a subject worthy of the deepest attention, yet very little understood or pracused in Maryland We have obtained permission to state, that these essays come from the pen of Callin Kirk, of Delaware, and may be considered as the deead of twenty years of actual experiments. The name if the author, and the length of his experience, give ample assurance of the integrity and the value of all he

TO THE EDITOR OF THE AMERICAN PARTIER.

Sig-When canne madness, (as it does at pres. nt.) appears in remo'e places, at the same time, it is chiceinic, therefore, more prevalent than when sporodicor propagated by the bite only, consequently additional precaution towards it, becomes necessary, and that aione is ample security. It is a primary disease with dog species only, as an epide me, although generating a poison that acts on most other animals. Do s therefore should be closely watched by their owners and confined, in the slightest appearance of indisposition. The first symptoms are dropping of the cars, cail and head, a dall watery eye, drawing up in the loins, mddl' rence to mod - changed at petite and manners then stuppy and tautention, shown by running against persons and hings, and finally windness, &c - It is probably curole in dogs by emptying the stomach, and sait diet When propagated by the bite, it seems to be imivers IIv fatal, a disprganization o ce tain nerves, indispensable to vital functions, having from effected by the poison before its operation is discovered, neither a c there any medicinal preventatives against it. On no subject has homan ingenuity been more - xtens volv or eagerly exerted, from the beginning of known om, to this. But the surgical antidote, is unquestionably infalleble, and may be easily applied by the clums i stand most amid hand. The bite of a mad dog is also as superficial and in safe places to cut, being on the convexity or exterior of the body, while the vessels and nerves run in the hollows of it, and may be felt thimping to the touch. cut out then the part bitten beyond the len th of a die's tooth, instantly, and if it spouts idood, stop it with the finger, gently pressed on the orifice, until a surgeon is MEDICUS.

The act, providing for the separation of the District of Maine, has passed both houses of the Wassachusetts Legislature. In the House of Representatives, the bill was carried by 198 to 57. The town meetings in the District, are to be holden on the 26th of July, and the votes are to be returned to the proper office on or before the fourth Monday in August. The separation is to tak place, provided there should be, in the white District, a majority of 1500 votes in favour of the me, sure.

Linen and Thread from Nettles - T he Irish have recently made some experiments upon the floss of nettles, for the manufacture of thread and linen - and the result is said to be, that both these articles are obtain dequal, if not superior, to the thread and linen from flax.

BEALT COMPANY ON STATE WHAT EXPLANANT EAD WERE BEALT SECTION FOR THE COMPANY OF THE PROPERTY O Present prices of Country produce, in the Latti-

more market.

Tonacco - has considerably improved, since our last report. Particular enquiries, authorize us in quoting Patuvent Cobacco, common quality, at S & S10-best, To a \$1 ... Eight hogshe ds of wagon Tobacco, made by d. C. Hobbs, Frederick county, very fine quality, sold on Wedn sday, for \$12.50 - and a crop of And'w Mercer's, same county, averaged yesterday, about \$11-Two hogsheads James River, good quality, sold by Mess Pleasmis & Sun, this week, for S7-Wheat, red, from Kent county, sold yesterday morning at SI 2 1-2-Corn 50 to 52 -Rye 70 - Oats 50 - Liverproi blown Salt, retail, per bushel, 75 cents - fresh Pork 8 to 10 cts per 1b - Chickens 25 to 37 1-2 each - Beel, best, 10 to 12-Yeal, per lb. 7 to 10-do per or from the wagons, 1 25 to SI 5 -Mutton 6 to s-Potators 87 1-3 to SI per gether, and place them in the room on a plate where bushel- Egg. 25 per doz. Hay, best timothy, \$16 per the flies are troublesome, and they will soon disappear, ton-Straw 15 to \$16-Butter 20 to 25.

TO MAKE GIAGER BEER -- A VERY AGREEABLE, CHEAP AND WHOLESOME BEVERAGE.

Take of Water 6 gallons; Brown Sugar 5 1-2 pounds-Brandy 2 quarts; Lemon Peals I dozen; a race of G n ger, counces - and one part of Yeast

The Yeast to be put in the keg first, and the other ingredients to be boiled all together, and suffered to stand until milk war at then to be poured on the Veast and left to ferment for 24 hours. Then stop the bung hole and life settle a day or two before you buttle it off.

Putent Self Reeding Wheat Fan.

HENRY REBRIANG, No 17, If Elderry's Wharf, Bat- it ware s the one proprietor of Jacob Baomwell's Patent Sof Feeding Wheat Fun. for the atlantic states.

He miorus tarm is generally, that he has on hand, and manufactures duly, Wheat Fans on the above plan, which he will warrant to be superior to any Wheat Fan now in use, in the United States.

The price of the above Fan is \$45, and should any Gentleman per chase one, and not find it as represented. Mr. Geiring Paves him at liberty to return it, and piedges house if to return the money paid for it,

Wheat Pan makers, or others wishing to make Fans upon the a ove plan, can have the privilege, by paying So for each Can for the term of fourteen years.

The public are hereby informed, that all patent rights tanted by me for using Jacob Bromwell's patent self feeding wheat fan, are issued upon an engraved place representing the Fan HENRY HERRING.

Sole Proprietor for the Adamic States, We the undersigned of the city of Baltimore, have en and examined Jucob Broniwell's Patent self feeding I heat Pan as manufactured by Henry Herring, and have no nesitat on in recommending it to the farmers, is the st we have ever seen and particularly well calculated a the cleaning of large crops.

The pracept of Self Feeding, being, in our opinion. to must sample, and at the same time the most effi-cent that can be amagined, and the least liable to get ut of order.

Ed Johnson, Mayor, Wm Mc. Donald & Son. Kn havd Frisby, Dact James Stewart, Richard Catin, Robert Mil's, Architect.

This fan, as to size, is precisely that of the common kind, and differs from them only in the hopper, feeder and shoe

The hopper being upright on the sides, and bevelling at both ends, to the centre, within about 9 inches at the bottom, in which is placed the feeder, which is a fluted or toothed roller of about 8 inches chameter, the full writh of the Fan-and put in motion by a hand chain, leading from the band wheel attached to the feeder, to another behind the main cog or driving whicel of the Fan, which gives the feeding motion the same as the turning of the Fan, either fast or slow. The wheat and chalf thus passing over the feeder, in a thin, broad sheet the full width of the Fan, has to fall about a foot upon the riddle, thereby enabling the wind to act upon the smallest particles of chaff before it touclies

The shoe is made to receive the different kinds of riddles necessary to clean all kinds of grain; and to correspond with the hopper and feeder, being entirely npen on the back part, and placed a foot below the feeder, in order to let the blast of the Fan operate on the chaff as it falls. The shoe being long in straps and put in motion by an arm tumbler and spring, works very light. T e screen is that of the common kind. The advantages of this Fan over those now in use, are, first That of chashing 120 bushels of wheat an hour, (or as fast as three men can fill the hopper) which Mr. Herring warrants it to do, and to do it well, and

Secondly, without the disagreeable necessity (as in the common way) of feeding with the hand, which every farmer knows must be done with the common kind of Fan, when the wheat is trodden or got out with mach nery, and the chall coarse, which is the most disagreeable part of cleaning wheat.

This Fan has also a decided advantage in the second t me through, over the common kind, in the feeding, as it always exposes a broader surface of wheat to the action of the wind

An elegant engraving, representing the construction of this admirable Fan, accompanies this number of the American Farmer, and though not exactly the size of our sheet, will very well admit of being bound in the first volume of this work.

# PRICES CURRENT

## AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Rectised and Control		
1-	ETAIL PI	RICE
BEEL, Mordioth moss	17	
No 1	15 13 50	
Bacon, lib.	16	
Butter, Ferkin	15	2
Coffee, first quality,	27	
second do.	27	2
Cotton, Twist, No. 5,	45	
No. 6 a 10,	46	
No. 11 a 20,	<b>5</b> 3	
No. 20 α 30,	80 \$3	1 :
Chocolate, No. 1,	25	
No. 3,	25	
Candles, mould, box	20	
dipt,	18	
spermaceti, - lb.	10	care
Cheese, American,   lb.   Feathers,	60	
Fish, cod, dry  qtl.	3 50	
herrings, Susquehannah, bbl.		retai
mackarel, No. 1 a 3	9 7 75	12
shad, trimmed,	5 50	6
fine, bbl.	5	5
middlings,	4 50	5
rye,	4 a	4
Flaxsecd, rough, cask cleaned, bush	none.	
Flax,   1b.	do	
Hides, dryed,	12	
Hogs lard,	12	
Leather, soal, gal.	62 1-2	
Molasses, Havana, gal. New Orleans, -	75	
sugar house,	1	
Oil, spermaceti, gal.	1 50	
PORK, mess or 1st quality, - bbl.	18 a	20
prime 2d do cargo 3d do	16 a	15
Plaster, ton	5	
ground   bbl.	1 75	
Rice,   lb.	2	۵
Spirits, Brandy, French, 4th proofigal.	1 25	3
apple, 1st proof	75	1 -
Gin, Holland, 1st proof	1 50	
do. 4th proof	50	
do. N. England Rum, Jamaica,	1 50	1
American, 1st proof	75	
Whiskey, 1st proof	50	
Soar, American, white, lb.	18	
do. brown, - Sugars, Havana, white,	19	
brown,	12	15
loaf,	25	. 1
lump, Ib.	20	
Salf, St. Ubes, bu . Liverpool, ground,	75	
Shot, all sizes, lb.	1 12	
TOBACCO, Virginia fat, cwt		
do. middlings,	6 50	
Rappahannock, Kentucky, -	6 50	1 5
small twist, manufactured, lb.	25	
pound do	50	
TEAS, Bohea, lb.	63	
Souchong,   lb. Hyson Skin	75	
Young Hyson,	1 2	
Imperial,	1 78	5
WOOL, Merino, clean,	86	4
unwashed, - crossed, clean,	65	4
unwashed, -	3.	
common country, clean,	S'	7
unwashed	2.	
skinner's,	3:	ă j

## RATES OF EXCHANGE.

OF BANK BILLS.

Corrected monthly for the American Farmer.

١.	Corrected monthly for the American Furmer.	
s		
ř	Branches of the U. States' Bank not paya-	
	Boston Banks par	
	NEW-TORK.	1
:0	City Banks par	1
25	State Bank Camden par	l
	Trenton, Newark, and Brunswick, 1 dis.	l
	Mount Holly Bridgetown, &c. 1 do.	ł
5(		1
	Philadelphia, par a as-4 Stephen Girard's Bank, par a do.	١
~ `	Chester, Easton, Harrisburg, Montgomery, 1 dis.	
	Hulmeville, Germantown,	1
0	Carlisle Bank, Chambersburg, Gettysburg, York, Lancaster, and Columbia Bridge, 11-2 a 2 do	1
2	Carlisle, (Agricultural)	1
0.0	Rank of Pittshurg. 647 1-4 als.	1
1	SiWestmoreland, Bedford, Brownsville, Chaminal	1
6	Meadville, Centre, Huntingdon, Milton \ DELAWARE.	ł
ı	Bank of Delaware, 1 a 1 1-2	1
	Wilmington and Brandywine, 1 a 1 1-2	l
8	7 State Bank at Dover, and Branches, 1 a 1 1-2 50 dull	1
r.	Laurel, 50 dull 8 Smyrna and Milford, 8	İ
υ	DISTRICT OF COLUMBIA.	١
2	5 Georgetown Banks, 1 dis.	1
	Alexandria Banks, (excepting the Me-	1
	Mechanics of Alexandria, 20	1
1	5 Franklin of Alexandria, 50	1
1	virginia.	1
9	OBank of Virginia, Farmers' Bank, and 1 1-2	1
-	5 Branches, ) Unchartered banks, various 7 1-2 a 25	ı
	Saline and Parkersburg no sale	1
	NORTH CAROLINA. State Bank and branches 6 1-2 do.	
	State Bank and branches 6 1-2 do. Newbern and Cape Fear 7 1-2 dis.	
	SOUTH CAROLINA AND GEORGIA.	-
	Bank Bills 2½ a 3	
	оню. Chillicothe, Marietta, Muskingum, Urban.	1
	na. Stuhenville, &c.	1
į	Mount Pleasant, Montpelier, New Lisbon, ( 13 a 23	
	St. Clairsville, &c. The above are the present rates; before our next	
	lreport, they may vary generally 1.2 a 1 per cent, except	
(	those marked thus *, which are more fluctuating.	
	Garrick used to employ one Stone to pick him up lo	
	Garrick used to employ one Stone to pick him up lo actors;—he was to find him a Bishop of Wincheste	w
	and had engaged one. Not long before the play began	r, n.
	he sent the following note to Garrick:-	٠,
•	T "Sir. The Dishop of Windhester is getting upding	at
	25 the Bear. He swears u-inh his eyes if he if play i	0-
	might. W STONE."  Garrick's Answer.—"Stone; the Bishop may go to the	10
	Devil. I don't know a greater rascal except yourself	
	D. GARRICK."	
	It was said I and Ohara C 12 shot New 31	_
5	50 It was told Lord Chesterfield, that Mrs. M. a term 50 gant and scold, was married to a gamester; on which	a. h
á	37 his lordship said, "that cards and brimstone made th	, 10
	75 best matches."	

150 turn his coat twice : he replied smartly, "that one good 150 turn deserved another."

On Sterne's entering the coffee-room at York, a Mr. A staring him full in the face, said, he hated a parson; upon which Sterne said, "And so, sir, does my dog, for as soon as I put on my gown and cassock, he falls a bark-'Indeed," replies A. "how long has he done so?" "Ever since he was a puppy, sir," answered Sterne, "and I still look upon him as one."

## POETRY.

THE BUTTERFLY AND THE SNAIL.

ALL upstarts, insolent in place, Remind us of their vulgar race. As in the sunshine of the morn A Butterfly (but newly born) Sate proudly perching on a rose, With pert conceit his bosom glows; His wings (all glorious to behold) Pedropt with azure, jet, and gold, Wide he displays; the spangled dew Reflects his eyes and various line. His now forgotten friend, a Snail, Beneath his house with slimy trail Crawls o'er the grass, whom when he spies, In wrath he to the gard'ner cries, "What means you peasant's daily toil, From clinking weeds to rid the soil? Why wake you to the morning's care? Why with new arts correct the year? Why grows the peach with crimson hue? And why the plum's inviting blue i Were they to feast his face design'd, That vermin of voracious kind Crush the slow, the pilfering race, So purge thy garden from disgrace." "What arrogance! (the Snail replied) How insolent is upstart pride! Hadst thou not thus, with insult vain, Provok'd my patience to complain, I had conceal'd thy meaner birth, Nor trac'd thee to the scum of earth: For scarce nine suns have wak'd the hours. To swell the fruit and paint the flowers, Since I thy humbler life survey'd, In base, in sordid guise array'd; A hideous insect, vile, unclean, You dragg'd a slow and noisome train: And from your spider-bowels drew Foul film, and spun the dirty clue. I own my humble life, good friend;

## A FRAGMENT.

Snail was I born, and Snail shall end. And, what's a Butterfly? at best, He's but a caterpillar drest; And all thy race (a numerous seed) Shall prove of caterpillar breed."

\*\*\*\*\*In the sheltering grave the wo-fraught heart will be at ease: the clouds of anguish which darken life's short day pervade not that still retreat. The poisonous breath of calumny and the envenomed tongue of envy, here lose their corroding influence. The sympathetic mind agonized by distress, unable to support the storm of ill fortune, sinks calmly into the embrace of death, into the placid enjoyments of uninterrupted tranquillity. Oppressed virtue finds a secure asylum for overhearing greatness; and the upbraiding charity of proud opulence is no longer painful to its object. The distinctions in society, which consign merit to oblivion and raise the worthless from the dust, are here forgotten. Unfeeling pride is disrobed of its splendid covering, and the gorgeous mantle is torn from the shoulders of the undeserving. Humble worth ceases to kneel suppliant at the feet of affluence, the lorn offspring of poverty fails to entreat from avarice the stinted boon. Buck, the player at York, was asked how he came to the victim of malevolence, who essays in vain, to parry the thrusts of unmeritted obloquy, glad that in death the dagger of contumely wounds not, welcomes with joyous aspect the closing period.

> PRINTED EVERY FRIDAY AT \$4 PER ANN. FOR JOHN S SKINNER, EDITOR,

At the corner of Market and South-streets,

BALTIMORE.

# AMERICAN FARMER.

# RURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

"O fortunatos nimium sus si bona norint " Agricolas." . . . . VIEG.

Vol. L

## BALTIMORE, FRIDAY, JULY 2, 1819.

Num. 11.

### AGRICULTURE.

From the Monoirs of the Philadelphia Agricultural Society.

## Notices for a Young Farmer, Particularly one on Worn Lands; &c. &c.

WITH NOTES BY THE EDITOR OF THE AMERICAN FARMER.

[Continued from No. 13, page 98.]

Dogs to be trained discreetly, to prevent bad habits; and especially in regard to sheep-killing. Carelessness in those who leave temptations in their way, a principal cause of this propensity.

XXI FAMILIARIZE YOUR YOUNG DOGS with sheep, and correct them, when they chase or annoy them, and they will protect, in place of injuring your flocks. Dogs become sheep-killers, by neglect in training them. Starved curs prowl for prey, and become savagely mischievous. Those who do not pen their sheep, and bring them home at nights for protection, but leave them in distant fields, expose victims to such dogs; and they ruin even innocently inclined dogs, by throwing temptations in their way They have no right, therefore, to complain of injuries Good and faithful dogs are as necessary on farms, as sheep.

Accustoming dogs to feed on raw and bloody food renders them inclined to seek it. The sight or smell of blood, infuriates many animals. Horned cattle are peculiarly affected by it. Not only dogs, but horses, operated on by the sight or smell of blood, have been known to be seized with fits of sudden rage; and instances can be related, in which they have dangerously attacked persons whose garments had been stained with, or smelt of blond, although commonly familiar with them Animals. (man included) become habitually and culpably fond, of what, at first, may have even excited antipathy and disgust. Sheep-killing begins in wantonness, and ends in vice, and is a species of canine madness -The confirmed blood-sucking sheep-killer, acquires a wild shrill bark, different from that of other dogs.

Shaineful negligence in not burying dead careases, not only reflects disgrace on those who permit such nuisances, on other accounts, but the dogs of a whole neighbourhood are often ruined, by such temptations to savage prosensities.

mended.

XXII. Do not commence with erecting costly foresight and calculation. BUILDINGS; but apply your time, efforts, and peenniary means, to your fame; and shift on with tole-leases are generated by confined air; and horses rable accommodations, until your fields warrant your kept too warm cannot safely encounter cold and wet providing better. Want of calculation in this re- Fatting cattle and sheep in sheds open to the south, gard, when their funds have been limited, has injur- and suffered, in good weather, to run out in yards, ed and depressed many beginners in farming; who are always hardy, healthy, and thriving. Surince have erected expensive houses, which have exhaust-kept in too warm, and more so in fifthy pens, are ed their means of improving their farms; and capa-lever subject to diseases and unprofitable feeding

crous barns, with little to store in them. If difficul ties in their affairs compel them to sell, they find, that, however expensive may have been the buildings and accommodations, a poor farm must be parted seldom duly appreciated, in a calculation generally made on the value per acre. When the farm beis, that it is too small; and most commonly, the floor to be injurious on account of retaining dampness, moval is a task-irksome and proceastinated. and promoting mouldiness in both grain and straw. But in our climate, favouring early harvests, with generally fine weather, no such consequences follow; and barns are all essential. In the southern parts of our rountry, they are dispensed with too negligently and unprofitably. The great farmers tread out their grain from the harvest field, or from stacks, as promptly as possible. By this means the grain is at market before the moth fly is grown sufficiently to injure the flour, and thus they have almost conquered that pest, and this, in some degree, justifies their farm stock, they are lamentably deficient.

Let your dwelling house and its appendages be to leeward, (as it respects commonly prevailing winds. those in winter especially, when hires are constant. of your barn and stack-yard; and sufficiently dis tant from them to avoid accidents by fire. Lights should be, as much as possible, forbidden in your barn and stables, and suffer not the reproach of omitting the common guards to your buildings, against lightning. Their being placed near water onveniences, may answer some purposes, but this should generally be avoided, especially if streams be large and dull, or collected in stagnant pools Low and damp sites for dwelling houses, generally produce fatal consequences to their occupants Leading distant springs or streams to your homestead, or digging wells may be costly and inconvenient; Farm dwelling houses, and other buildings, observations but health and comfort are thereby ensured When concerning them, and the situations in which they are placed. Stables for horses and cattle Pens buildings and other improvements are placed to for swine, and mode of feeding them. Clemtiness as near mill-dams, or rivers, and streams subject to to all places where live stock are kept, recon- floods, repentance comes too late, after ruinous consequences have been suffered by such want of

Stables for horses should not be too close. Dis-

There is no greater mistake, than that of gorging swine, when first benned for fatting. They should, on the contrary, be moderately and frequently fed; so that they be kept full, but do not loathe or eject with a very inferior price; and the buildings are their food; and in the end, contract fevers and dangerous maladies, originating in a hot and corrupted mass of blood; against some of which, dry rotten comes productive, it seldom, if ever, happens, that wood, as an absorbent, and, some allege, smith's the barn is too large. The most general mistake cinders, thrown in their pens are preventives. In airy and roomy, yet moderately warm pens, payed is too narrow for treading out crops with horses, or or boarded and often cleaned, they are healthy and using our simple machines for threshing; which, thriving. They shew a disposition to be cleanly, (though not so powerful,) are tolerable substitutes bowever otherwise it is supposed; and they always for the complicated and expensive, however valuable, drop their ejections in a part of the pen different inventions, with which, in some parts of Europe, from that in which they lie down. No animal will grain is threshed out. In the moist countries of Eu-thrive, unless it be kept clean. When cleanliness rope, wherein there are late harvests, stacking is becomes habitually practised, it is easy to preserve preferred to confining grain in barnes, which is said it. But if filth be suffered to accumulate, the re-

Accounts of receipts and expenditures, and Notes of farming occurrences, to be kept.

XXIII. Keep accounts of all your expenditures and receipts; and notes of remarkable occurrences on your farm. Recording even your errors will benefit yourself in future avoidance and become warnings to others. Your successful practices will be examples. You owe it to yourself, your children and your country, to register and promulgate them.

Reading on agricultural subjects recommended. XXIV Read, and do not slight either foreign lack of farm buildings; save that in covers for their or domestic books of reputation for principles and practice, on agricultural subjects. Climates may and do differ; but principles are invariably the same. If you have, as you night, a desi e to be well acquainted with your art, gain some knowledge of subjects elucidating its principles and particularly of CHYMISTRY, as connected with agriculture; altho? voluced not aim at being a perfect Chymist, nor qualify yourself as a disputant on theories and vain and unprofitable discussions, which produce no beneficial result; but, on the contrary, bewilder those to whom information of plain principles and facts, and practical lessons, are the most necessary.

Home's Principles of Vegetation, Darwin's Phytologia, Hunter's Georgical Essays, Anderson's Essays, Lord Dandonald's Convection of Agriculture with Chymistry, Davy's Agri altural Chymistry, are among the books giving a general view of principles; and books of practice you can obtain at pleasure. The former you can use as lawyers read Blackstone's Commentaries; and the latter as they apply to reports for detailed and practical information

Experiments useful and necessary; but settled practice should not be disregarded Profits of farming; observations respecting them.

XXV Excensuexrs are highly commendable, but do not set out as an habitual experimenter; as if husbandry were a new art, (however defective it may be, and every thing depended on your own discoveries. In such case, you would consume your labour, time, and means, which should be devoted

tended with no serious injury or expense, fear not talfeeding is not promotive of, but cheeks, feeundary. endeavour may be unprecedented. It most assured-necessary and desirable to them to seek for and de ly requires experiment to adapt foreign practice to stroy insects and other pests to your garden and helds. bly executed.

It is not intended to say any thing on the subject of profits of husbandry, as these depend so much on the circumstances both of the farmer and sons, or wanton destruction, is often seriously felt the farm, accordingly as its culture is applied to in the increase of insects on our farms. The depre grain or grass, or mixed husbandry, and the man-dations of birds are fully compensated by the seragement and economy with which its business is con-vices they render to us; whilst, for their own supducted; that no calculation can be made, on general port, they are preying on our enemies. Our poul-principles, with any degree of correctness. Those, try are entitled to regard on this account. They however, who do not personally labour, and have may be broken of bad habits, by ehecking intrusions, every thing to hire or purchase, should be moderate and feeding them exclusively, in places distant from in their expectatious; and for them a grazing farm the garden Those who find them ungovernable would be the most eligible. But a farmer on his and too mischievous, may keep them in poultry own farm, as is the case with most of our husband- yards, or banish them entirely. I igeons are semen in this happy country, wherein they are bur- riously mischievous, and should either be kept in small thened with no tithes, heavy rents and oppressive animbers, or not at all. Guinea fowls lay abunpoor rates; and pay, comparatively with other coundance of eggs. though in some cold countries it is tries, light taxes; helping themselves and assisted otherwise. But they are inveterate enemies to by their families;—thus avoiding the payment of other poultry Fowls however, laying the most much wages to hirelings; and, of course not subject-leggs, which they can do without frequent congress ed to their caprices, vices, idleness, and defalcations; with males, are not remarkable for breeding, many contented with wholesome subsistence, in great of their eggs being barren. Those laying fewer plenty, and reasonable profits; can live well and in- eggs, more frequently incline to incubation dependently, with even a tolerably good system of kies among tobacco plants, are valuable for their husbandry; and sit "every man under his vine and feeding on the worms which infest them. Mr Coke

sized plough farm, producing chiefly grain; or even our prejudices for us to relish them at our tables additional resource, they will not be a jot the hap

quire artificial substitutes for them.

who affect that character, which does not consist in sociations of ideas. expensive display. Let his motto be esse quam videri;-to be and not merely to seem; and his sta-should they be kept too close and warm. Fifth teemed, the more be accommodates his wants and quently turns, and often leaves her eggs to cool .habits to his circumstances.

selected, as some are less inclined to wandering wise retain it through life and mischief, than others. Turkies are the most The daug of poultry is well worth your care.-

to settled and known practice, in pursuing your own mischievous and offensive; and geese are predatory suggestions; or in clearing up your doubts on the trespassers; very voracious, and injurious to grass experience of others; most probably unprofitably and grounds It is questionable, whether the balance unnecessarily. Listen to intelligent and successful of the account, giving credit for their market price, practical men, whom you will easily distinguish and some believe it might be doubled; be not much among your neighbours. Do not imitate the exclu-lagainst both. So that, in many situations, it would sive self approbation of too many farmers, who be, perhaps, most economical, if they must be had, impatiently and heedlessly wait whilst information to buy them for the table. Dung-hill fowls, of inis offered, until they can relate what they are doing, nocent breeds, are preferable to either. Confining and have done. Yet where even a failure will be at these too much has not been found eligible; and high attempt an improvement or discovery, although the It also destroys one of their uses, by making it less our climate and circumstances; and to make essays They thrive better when kept in good condition, and to change or meliorate our defective usages. But by moderately feeding them at home, they return we are not so far behind, as that most of the com-from wandering, and preserve their domestic habits. mon operations are not well understood and reputa-|They often injure the garden; but some gardeners think that they do more good than harm, by devouring insects and noxious vermin. The absence of wild birds, whether owing to irregularities of seaunder his fig tree, and none shall make them afraid." of Norfolk, in England, purchased hundreds of ducks Those who wish for enjoyments comparatively for worming his turnips. Whatever may be their elegant and luxurious, must depend on other resour- value, in these disgusting however useful instances ces than those of a mere farmer on a moderately of filthy feeding, it would require the absence of all a grass farm of reasonable extent; but with every Those who bought Mr. Coke's fat ducks, were happily ignorant of the means by which the delicacy pier in real comforts, though their habits may re-lwas rendered merchantable; and no objections are made to feasting on turkies thus fed, by those whom A farmer can be a well informed gentleman, ac-habit has reconciled to such repasts. Good eaters cording to the true import of that appellation, with are, however, too busily employed on the subjects out the imitative and shadowy pretensions of many before them, to suffer the intrusion of over-nice as-

Hen houses and nests should be kept clean; nor tion in society will be respected, as it merits, for generates vermin, and heat is injurious both as it useful actions, and he may be distinguished for po-frespects health generally, and particularly at the liteness and snavity of manners, without the tinselftime of incubation, when overwarmth in the ben of affectation and insincerity. He will be more es-lis prejudicial to hatching, insomuch that she fre-Be careful to guard against the access of egg-sucklers Minks, rats, and weazles, are greatly so; XXVI. A farm homestead is enlivened by Poul-and they and other such vermin are destroyers of TRY; and family comforts are much increased by poultry. Dogs are not much behind them in this their eggs and young. But their numbers should propensity, and should be chastised and broke of be kept within bounds, and their kinds prudently the habit of egg-sucking, when young, they other-

It is so powerful, that it would fertilize, if even sown by handfulls and it must therefore be thinly

It must be seen, that many of these observations. as they relate to some kinds of poultry, apply to farms in a thickly populated neighborhood where range is tre-pass. The kinds most noxious in confined situations, may be profitably and extensively raised in other districts of our country, wherein circomstances favour the breeding them Too many cocks should not be kept. Their ferocity in combat, (the more frequently shown, when extra numbers contend for the same object,) is not a proof of their fecundating properties; and the gentless and best formed should therefore be selected. One for every 8 or 10 hens will be sufficient. The others may be ema-culated, and thus improved as an esculent highly valued where the practice is common. CAPONS are rare among us; but it is unaccountable why this addition to our fare has not been more attended to Hens hatch only one brood, or two at most, in a season. A capon may be taught to hatch and most carefully rear and horer, several broads in the same year.

Reaty and mean breeders, of either sex, should be killed It is scarcely possible to prevent different breeds, in the same yard, from mixing. But if breeders are sizeable, it is by no means a subject of regret, that they communicate with each other. Crossing most commonly improves poultry, as it does other animals as well as plants. But they must not be of a distinct species, for some kinds produce, by mixing mules or hybrids which will not breed. The Muscovey with the common duck, affords a frequent instance of hybridious, and com-

monly barren, progeny.

A singular instance of the benefits derived from poultry, was presented to a number of respectable witnesses of the fact, some years ago, in a part of an unseated country in Pennsylvania, far removed from population. A solitary New England settler, was found clearing the woods and building a cabin for the reception of his family, who were to follow him with the rest of his stock. He had brought a number of poultry, and a flock were seen around him, which by their eggs, furnished the chief part of his support; and with this sustenance, he declared he as perfectly enabled to labour. Occasionally be procured some grain from distant settlements, which the fowls sparingly shared with him. This, and the precarious supplies of the forest, kept them and him in good plight. They never wandered, but always associated with him, as well for protection as from habitual attachment.

Farming instruments, implements and tools to facilitate agricultural operations: Some observations respect-

XXVII. Few farmers attend, sufficiently to the necessity of providing the best, (and the best are generally those the least complex in their construction,) as well as the most appropriate INSTRUMENTS OF HUSBANDRY; and the implements, utensils, and tools of their trade All occuptions require those who follo . them, to be closely attentive to the means of earrying them on with facility of execution and consequent profit, by tools appropriate to every operation in their business. But a plough or two, some eommon harrows, a cart or waggon, with some ordinary tools used in common and minor oper tions, too generally fill the catalogue of farming instruments and implements. Ploughs should be various, and calculated for different uses. Among them is a plough introduced in the hilly country of Virginia by Col. Randolph for ploughing, horizontally, mountainous or hilly lands. An account of it will be seen in the 4th vol. of the Philadelphia Memoirs. in a letter from Mr. Jefferson. The like practice is followed by the Germans inhabiting mountainous countries; but their ploughs with shifting mouldboards are differently constructed from that mentioned. Every farmer should accommodate his in struments to the local situation and attributes of his farm; as well as to the uses common to all situations. Harrows should be constructed for the variety of purposes required in good hashandry Coulter and hoe harrows, as well as others adapted to different operations, should be possessed by every good fariner: and among the less instruments, the horse rake should be better known and more generally used. This saves much manual labour in gathering hay; and is peculiarly fitted for raking grain-fields, (the borders whereof, after being reaped, should be ent with the scythe, or cleared otherwise of weeds,) so that quadrupely the expense and labour of the operation is gained by the saving of grain which would otherwise perish. See 3d vol. Philad. Memoirs, There are hand rakes for this purpose, wherewith one labourer will do as much work as two or three with the common rake the roller both plain and spikey, is as essential as any other instrument, yet is not so common as it ought to be Riddles and screens for eleaning our grains, are highly improved of late years, yet few farmers possess the best The potatoe riddles are great facilities, to save time and manual labour, in seizing and separating those roots whilst gathering; yet few possess them at all, and others have them badly constructed. Improved cutting machines will be found all essential, when the practice of chaffing hav and other provender becomes duly appreciated. No pains or reasonable expense should be spared, in sub stituting some effective threshing machines for mannal labour, and thereby overcoming one of the greatest embarrassments in our rural affairs.

Agricultural Societies.

XXVIII. Encourage the establishment of an AGRICULTURAL SOCIETY in your neighbourhood, and contribute your share of useful information -Let it be furnished with a well selected, however small library, on subjects as well practically as the oretically connected with husbandry. Avoid turning it ioto a club for mere amusement, or topics of controvercy and dissension: but let the objects of its meetings be confined to the improvement of its members in the business to which their lires are devoted One of the great objects of such societies should be to enlighten the minds of our citizens, on the subject of roads, canals, and improving the navigation of rivers, bridges, and other facilities for transport All the partial inconveniences of running through farms, payment of tolls and other minor objections, are no more than the dust of the balance, when weighed against their incalculable benefits to agriculture, arts, and manufactures.

Habits of Industry, Economy and Sobriety inculcated. Savings Bunks. Friendly and Benefit Societies. Lancuster

XXIX However unpromising mry appear the task; use your endeavors to incite, and with address, mildly and moderately to invite such of your neighbours who can be readily obtained. Dealers in ruinous tempta- strength, constitution, and havits.

habits of industry, economy, and sobriety: for such have so many customers, when money, too often dehabits are the only requisites in this country, free! from the impediments and disadvantages existing in and salutary purposes; but our country will incalcumany others, to enable every well disposed citizen lably benefit by the increased numbers and vigor of to advance his interests and comfort. They are impenetrable shields against poverty and want Point out to them the advantages of depositing a small portion of their earnings, in saving banks, or well regulated friendly and benefit societies, as sure resources against penury, and relief in sickness and incapacity to labour, as well as for the education of their children; to guard them against the miseries of unlettered ignorance and its companion, vice And for this purpose, encourage and patronise the Lancastrian plan of teaching It is the most practicable and effectual, as well as economical inprovement in the means of education of young mem bers of the community, unable in any other way to acquire learning, and to whose wants it is peculiarly adapted, that has ever been introduced among any people, and especially among our citizens, enjoying eniversal suffrage in our republican system of government Knowledge and information, to qualify them to inquire and judge for themselves and not depend on assistance often seductively rendered, are essential to their freedom and happiness. knowledge and information can only be acquired, through the facilities afforded by education, and what is called a common one, which must be gained in early life, is fully competent to all useful purposes for which they require it.

Religion and morality, to which all earthly con siderations are of very inferior importance, will Without it, the fertility of the richest soils is soon spread their benign influences over minds enlighten- dissipated. Novelty or originality have not been ed by the information such means of attaining it the objects of this defective compendium. Facts will furnish. No people can be bappy and no gov- and opinions are drawn together presumed to be ernment, (especially one founded on republican warranted by experience, or collected from writers principles, can be safe, when religion and morality, of reputation. Nor are any practices or opinions mass of its population.

cannot be totally abolished, the custom of dealing out to labourers, ardent spirits;-the most danger ous and destructive foes to the peace of a community, and to the prosperity and happiness of individuals afflicted by a propensity to use them incontinently. Those who furnish the means of destruction, and practice of an art, on which the subsistence are equally culpable with those who perish under their enticements.

If, out of the country funds or by private societies. some premium or medal were given to poor parents. to encourage binding their children, often kept at home in idleness and want, to regular trades, or employments in husbandry, much benefit would a rise both to the parents and children. Hiring t em to occasional labour, or in manufacturing establish ments, conduces nothing to their permanent benefit, either as it regards education, morality, or final settlement in life. There is an unfortunate reluctance on this subject, which might be overcome by honor able notices and distinctions.

Sarings placed in the way of accumulation, in the mode recommended, would enable persons in narrow circumstances, in a course of time, to establish themselves at home; or, if they are so dis-

require and will listen to a benevolent Mentor, to I tions to waste time, health, and morality, will not voted to baneful dissipation, is saved for meritorious its population. Youth and manhood would enjoy innocence and health, and penury would be averted from old age. The less idleness and drink, the more bread. This remark would be necessary, could those to whom it is applicable and monitory. be induced to follow the instruction, and feel the excitement, conveyed by the old but evergreen Anothegm:-

> " Industry is the right hand of fortune; and frugality her left"

> > Conclusion and general observations.

XXX. It many of these mementos should be deemed trite and unnecessary, by men of agricultural intelligence, they will nevertheless, be found useful to beginners. The listlessness of old farners, often requires something like Dean Swift's Flappers. What is considered as trivial, obvious and minute, requiring little exercise of mind or facalty, is overlooked and walked over every day without observation: yet such details and items are as essential to the great concerns of life, as are the letters of the alphabet and the common grammar rules to literature. The Germans have a homely, but expressive axiom. "List ist besser als mist." Skilful management is better than dung.-It has been the aim of the foregoing Notices, to unite the benefits of both With skilful management, sterile and worn lands may be made durably productive -(twin sisters,; are not the predominant habits of the recommended as exclusively preferable, however printedly they may be mentioned. They are in-Associations should be formed to moderate, if it tended as mere suggestions and hints to beginners, and not promulgated with any view to assume superiority of knowledge or judgment, over those who may consider other practices, or opinious, more correct.

It is a melancholy reflection, that the principles and comforts of the humane race so materially depend, should still be subject to varieties in opinion and contrarieties in practice Few of even the rude outlines of a subject so copious, can be comprised in a compass so narrow. Nor can it be expected that any more could 'e noticed, on many points, than the practices respectively mentioned, leaving the details of execution to be sought for in experience from practical monitors, or books.

The art remains imperfect, although so many ages have elapsed sinse man was first doomed to cultivate the earth, and countless volumes have been written on the modes of fulfilling his destiny. Some benefit is however, always derived from the most humble attempt at instruction, if it is e received with candour and discriminating judgment. It would be as hazardous and vain (though leading and settled principles are generally applicable,) to recommed posed, in our new countries, when their families in- the like practice in dissimilar soils and situations, crease in numbers and strength. Plans of such as ir would be for a physician to preseri e the same banks and societies and of the schools mentioned, (reatment and remedies, to patients differing in

ne e vo Gardener Lecas, jun.]

## Tur the month of July.

Clean and prepare all vacant ground, where the crops have come to majurity and have been taken off, that it may be in order to receive fresh weeds, and plants, such as may be made use of in autumn, ad winter, Peas.

The early erop of hotspur peas, will, in this month, be ripening for seed; and as it is not so necessary, in the middle states, to change all kinds of seeds, every year, as in most parts of Europe; this valuable article, may be planted in the same ground, for several successive years, and the seed materially improved so as to produce double the quantity by attending to the following directions.

None, from the rows of peas which are intended for seed, on any oceasion, ought to be gathered, until they are fit for seed, then go over the rows, select all the pods, which appear to have five peas and upwards in them, shell them out carefully, and afterwards, with a coarse riddle, which will just admit the smaller peas through, separate the small ones from the rest the small ones to go into the general mass) the best to be reserved for your own sowing. The second year you may reject all pods which have not six and upwards in them, handpick, and shell them in like manner, and so continue the third and fourth years, when the peas will have attained their full maturity, and some of the pods will have ten and eleven fine large peas in them, and if the same care is observed ever after, they will not degenerate, but will continue to produce as before mentroned, without being so subject to the blight.

The small dwarf pea may be treated in the same man ner, with an equally good effect, but as the seed is small, of course a riddle suited to their size must be used.— The other sorts might probably answer as well, if managed in the same manner; but these have not been proved.

Putatoes.Early this month, if not done in the last, a fall crop of potatoes, may be planted in the middle states. The ground may be furrowed out, pretty deep, let the furrows be three feet apart, and a good cost of rotten manure, spread in them, about three inches thick; place cuttings of the potaties, having two or three eyes 10 each, about ten or twelve inches apart, in the rows, and cover them with about six inches of earth. A few days before they shoot up through the ground, harrow them over, with the back of the harrow, which will considerably check the growth of the weeds, and after they appear above ground, a small harrow may be run over the ground, between the rows, which may be expeditiously done; after which the hoe and plough must be used to destroy weeds.

The potatoes planted early in the spring, will now be fit for usc.

Caulifforers.

The late sown cauliflowers, intended for winter use,

may now be planted out. In planting this er op, take every opportunity of show-

ery or moist weather, plant them as the distance of two and an half feet each way; let them be immediately watered, and afterward frequently, until they have taken

C bhage Seed

Sow some of the early Fork, flattersen and sugar-loaf calibage, for a supply of your greens during the an They are by some called colworts, and have superceded the trop coleanors, which were formerly propagated, for boiling as greens.

Some Savory seed may also be sown at this time, for a late winter crop.

Co-crarts.

Those who wish to have the true coleworts, may sou them early in this month, to be plant dont in the hegunning of next month, for winter greens, but the early York, &c. eabbages are proforable, to be used instead

Planting Calibrary, Savoys, Borccole, &c.

Plant out your late or ope of cabbuges, savoys, borecole, broccoli, turnop o dd ago, Boussel's sprouts, Jerustlen kale, and oli others of this species, in most or cloudy weather; he them be planted, as formerly distractfully hood, without injuring the vines.

rected, and immediately watered, which much be frequently repeated, until they have taken root, r. d begin to grow. Lay a fresh cabbage leaf over each ; and, for a few days, which will protect them from the sip .-Some seed of the green ourled borecole may be soun for a late crop.

Small Sallading.

Continue to sow small sallading, every eight or ten days; shade them with mats from the mid day sun, and water them frequently.

Lettuce.

Thin and transplant the lettuces sown last month, water them immediately and repeat it when required.

Sow more lettuce seed, the beginning, middle, and particularly the latter end of the month for a regular succession. The white Silesia, brown Dutch, India, grand Admiral, and Saxony cabbage lettuce; are all good kinds.

Carrets.

Towards the end of this month sow some early horn carrot seed, in drills, to raise young roots for autumn and winter When the plants are up, an inch or two, thin them to five or six inches.

Celern

Plant out into trenches a full erop of celery, for autumn and winter; let this be performed as directed, in June. The red stalked celery, blanches very white, and is generally preferred to any other.

Earth up the early crops of celery, which have been planted out in trenches, first pulverising the earth, and then laying it neatly to both sides, preserving the tops and hearts of the plants free; repeat this earthing, eve ry eight or ten days, or oftener, until the plants are of proper size for use.

Sow more seed, in the first week of the month, for a

late crop.

Turnens.

Between the twentieth of this month, and the middle of August, a principal crop of turneps, may be sown for autumn and winter use; but the earlier, in that period of time, they are sown, the larger size will the roots attain to.

Transplanting and sorring Endive. Plant out a sufficient quantity of the best and most flourishing endive. It requires a good, strong, moist ground, well danged. Put in the plants a foot asunder every way, water them immediately, and repeat it every evening till the plants have taken root.

Sow green endive, also white, and Batavia, twice this month They should be sown in ground well prepared, and sown thin Water them, frequently in dry weather, both before and after the plants appear.

Sp'nach

In the last week of this month, sow a crop of the round seeded spinach for autumn use.

Rulishes.

Radishes of every kind, may be sown in the last week of this month; but particularly, the white and black Spanish, or winter radish, of which a full crop ought to be sown for autumn and winter.

Surv likewise, some of the short top salmon and purple, also the turnep rooted radishes. Let all these

edds be now sown on moist grounds.

A tichokes.

In order to have articlaikes in perfection, in the first week of this month, all the small heads, which are produced from the sides of the stems, must now be cut off to allow the main head to attain its full size; these small heads may now be dressed for the table

The maturity of a full grown artichoke is apparent by the opening of the scales; and it should always be cut off before the flower appear in the centre.

As soon as the heads are all taken from any stem, it should be immediately cut down close to the ground.

Cardoons.

Plant cardoons in the first week of this month, if not done in the last month, as has been directed. Earth up in dry weather, those planted at that time; tie the leaves previous to the earthing of them with a hay-band, which will preserve the plants; the earth to be raised up half their height.

Melens. Cucumbers, Squashes, Pumpkins and Gourds. The crops of these should now be kept very clean and free from weeds, the space between the hills must be

The first week in the month, son the seeds of the iong sme th melon. for in ingoes (in the middle states) as has been directed

Cucumbers for Pickling.

From the first to the leath of the month, sow a geperal crop of encombers for pickling, treat them as directed, in May and June. The green cluster encumber is the greatest bearer.

Some of the early frame, or short prickly kinds, may be sown in the middle of the month, for a late

eron.

rected.

Kidney Beans. Kidney beans of the dwarf kinds may be planted, in the beginning, middle, and latter end of this month. It

they have been steeped in pand water, for five or six hours, before planted, they will shoot the sooner. Egg-Plant, Red Peppers, and Tomatas. In the first week of this month, if not done before, plant out these, as directed last month. Give them

will be best to water the drills before planting, and if

shade and water until they have fully taken the ground. Lecks. You may still continue to plant Leeks, as before di-

Garlie, Shallots, and Rocambole.

When the leaves of these plants wither, pull up the routs, and dry them in the shade for a week or ten days. Onions.

Pull onions when the leaves wither, do this in dry weather, and leave to each onion, about four inches of stalk. Spread them on dry ground for ten or fifteen days, turning them every other day. Then clean them from the earth, and spread them on a dry room floor, leave the windows open in dry weather, three or four weeks, after that keep out the air, and turn the onions occasionally, picking out such as may be injured.

#### INTERESTING EXTRACTS.

Continued.

No 3... American Agriculture and Botany.

DE WITT CLINTON. It has already become difficult to discriminate between our native and naturalized plants; with the progress of time, the difficulty will increase, and it ought to be removed as soon as possible From the ve etable kingdom man derives his principal food and medicine, and it administers to his wants and luxury in a variety of shapes. The botanist ought to attend to the substitution of indigenous medicines, of equal efficacy, to those imported; and also to the discovery of others whose qualities are now unknown, as applicable to the cure of diseases: he anoth also to direct his attention to the discovery of indigenous esculents; and of articles for dying, soap, lights, and other branches of domestic economy. America has furnished maize, or Indian corn, which may be compared with the best of the cereal gramina of the old world; she has also originated the pctato, which has administered more to human 'u sistence than any other production whatever. There are probably other undiscovered legumens and gramina which may essentially contribute to the comfort and support of mankind. It is said that there is a natural mendow of vast extent in the Michigan Territory, which abounds with wild potatoes and artichokes; it would certainly be worth while to ascertain whether they are the real solumum tubenosum and helianthus tuberosus. (a) All the Indians of the northwest have, according to Pike, a species of wild oats for their only farinaceous food; we would rather suppose it to be a species of rice, as it is an aquatic plant; and if each stalk produces, as it is stated, half a pint of grain, it is undoubtedly an object deserving of attention. (b) Lewis and Clarke have pointed out several vegetables unknown to us, which the Indians use These and many other sources of inquiry are open to us. The discovery of a

modestly cludes the prying eyes of the passenger bundance in many parts of England and Wales. In severest frosts. it. Dr. Smith, president of the innæan Society, has eroal grass, not a native of this country: 1 his collection of rare plants. This is one of the rarest neved we have nearly two millions in this state as well as most beautiful productions of the north, Wonderful qualities are ascribed to the Guinea of the Rocky Mountains, which extends seventy miles, it is indigenous in the parish of Kemi Hitherto it grass in Jamaera, and the fiorint is highly commend it is found in great abundance and is a principal article has been discovered no where else except, as I have ed as surpassing all the grasses in its outritious been informed in North America \*\*\*

system for repleuishing our forests, but for accum-others: for instance, the meadow sweet | wastes aof the cerea ia , it is our givent staple commodity; and deer. the utmost care ought to be taken in perfecting and protecting it against the injuries which it receives vation of our fruit; and to the destruction of those cats of any European grain, but longer and larger; and from various sources. The selection of the best noxious insects and worms which have, within a I have been assured by very many credible persons, kind for seed is a great object, there being several few years, injured it beyond measure. Our soil and who, out of curiosity, had divers ways prepared it, that species; red, white yellow, bald, bearded, summer climate are admirably adapted to some of the most sultivated by the Indians, but grow; spontaneously in and winter. It is obnaxious to injury from cockle, delicious fruits. The Spitzenbergh apple is said to marshy places, in and by the sides of rivers, like reeds drips, sorrel, commixture of rye, smut, the weavil, have been discovered accidently in the vicinity of the hessian fly, blast and mildew. The cause of mildew is unknown; the blast sunctimes rises from pin, whose excellence is also, probably, of local orthe effluvia of barbarry busbes, but generally from igin and which reminds us of the malum ourcum of is Churchill river, near the 64th degree of north latithe rapid growth of the grain in June. The origin the ancients. We ought, also, to be particula by bude. Ellis, in his account of a voyage to discover a of the bessian fly, and the best remeily against its attentive to the introduction and naturalization of the northwest passage, mentions, that there are great quandepredations, are subjects about which there is a best foreign fruits; and the importance of this will depredations, are subjects about which there is a contrariety of opinion (c) Paticular attention be duly appreciated when we consider the origin of 55th degrees of north latitude. On the 21st September, ought also to be devoted to the selection of the best those which are now most esteemed.

The cherry Fike stopped of a Sioux village, between Pepin and the fath of St. Anthony, and n about 44 degrees 30 minutes fath of St. Anthony, and n about 44 degrees 30 minutes fath of St. Anthony, and n about 44 degrees 30 minutes fath of St. Anthony are now most esteemed.

new plant gives celebrity to a but anist; and, if use-[nel, foreign and perenntal grasses, have been men-] and filhert are from Pontus; the apricot from Epire; ful to mankind, his fame is immeasurably enlarged trood as highly useful. Red clover and timothy are the peach from Persia: the citron from Media; the Before 1 conclude this subject, permit me to in-also exotics; but white clover is a native plant, and pomegranite from Carthage; the quince from Caquire whether the cypripedium bulbosum has ever invariably follows cultivation. The arena alatior, thonea; the plum from Damascus; the best pears been seen in this country? I ask this question, be- or tall meadow oats, was imported some years ago from Alexandria; (f) and the alive and fig from cause Acerbi, in his Travels, has made the followinto Pennsylvania, by Dr. Mullenburg; and is re Greece.—Discourse before the Lit. & Phil. Socions observations respecting it: ing observations respecting it: commended as the best grass for green fudder and To Mr. Custrien science is indebted for the discharge. The festuca ovina or sheep's fescue, is precovery of a famous plant, viz cypripedium bulbos ferred in Sweden to all others for sheep. Ginelin um, which was at first seen by Rodbeck in 1685 says, that the tartars fix their tents during the suis but had never been found since by any botanist: not mer in those places where there is the greatest plen bet had never been found since by any botanist: not one in those places where there is the greatest plen even by the great Linewus, who passed this way in ty of this grass, and that the sepulchral monuments to our markets for sale, and is a wholesome, agreeable July, and, consequently a month after it had been of the ancient tartars are mostly found where it a vegetable. This plant ought to be cultivated. It proinflower. This plant skulks among the underwoods bounds; which shows that it has been long valued duces about four hundred and eighty bushels an acreand firs which surround the cherch of Kami. It by them. Stillingtheet says that it is found in a lit flourishes in almost any soil, bringing almost invariable, a certain crop, and it is also proof against the and loves the temperate enjoyment of the sun's love, the Hortus Elginensis, published by a distinguishwhich can only reach it by insinuating them save of botanist,\* it is mentioned as being in that establed, or roasted in hot ashes, was cat by our Indians. It between the branches of the bushes that overlade his ment; and as a hardy perennial plant: it is a lasted nearly like potatoes. It is commonly an inch and given us a coloured figure of it extremely accurate have mentioned it thus particularly because it is so low, muddy and very wet ground. It composes a conand lively, which the reader may see and admire in important a nutriment to sheep, of which it is be-siderable part of the food of the Chinese, and is cultipowers.(d). In selecting the best foreign grasses Adequate and satisfactory notices of our hus-for cultivation, we ought not to be unmindful of those bandry would occupy too much time. Our atten- which nature has provided us at home. In the tion ought to be drawn to supplies of the best and western parts of this state there are several native most powerful manures. A gypsum has no influgrasses deserving of attention. One kind, called ence in the atmosphere of the sea, it is a great de-the winter grass, resists the effects of frost; and sideratum to find a substitute equally efficient for when the snow leaves the ground in the spring, fur the Atlantic parts of the state; Fish, peat, sea- nishes nourishing pa-ture. Another species is statweed, street dirt, calcined pyrites, lime ashes, and ed to resist a dry season, and to be in full verdure much, have been all recomended; and some of when all other plants are perishing with drought them have been tried with g eat success. The dyk- A perennial plant, called the wild pea, is said to be to a dainty dish, by being mixed with fresh maize flour, ing of salt meadows and marshes, and thereby cre- superior to clover as folder; to which it is not only and baked. They also gathered and dried hickory and ating excellent land for tillage and grass, and the preferred as nourishment, but it has this advantage, black walnuts; took out the kernels and pounded them irrigation of lands, would be very advantageous, and that the stock is not so brittle, nor are the leaves so they have not been practised with us except in a apt to pulverise. There is a highly aromatic plant, they have not been practised with us except in a part to purceise. There is a mighty consider the solitary cases. Several plans for a rotation of collected by the indians in small quantities, called probably a native of this state. The lycoperdon tuber crops have been proposed, but have not been attendance. When on this subject it is of Linneus, called truffles, grows here and in New-Jermoner to state, that there are certain plants which they, and we have a place called Tuckahoe. These times are certain plants which they have a place called Tuckahoe. failure of wood not only requires some beneficial are pernicious to some kinds of cattle and not to delicious bread from their farinaceous matter. anodating the farmer with su stantial fences; hedges way the cow but is beneficial to the goat; the longof whitethorn or hawthern may answer a valuable pur-leaved water hemlock will destroy a cow, whereas pose; and it is believed that there are three species the goat browses on it greedily; monk's hood kills with us; two native and one imported from G. Brit- the goat, but will not hart a horse; the andromeda, time immemorial. In a curious book, entitled a deain. Of all the culmiferous plants, wheat contains the or dwarf laurel, is very fatal to sheep; and so is the scription of the English Province of Carolina by the heaviest grain, and it is certainly the most important kalmia latifolia, which is devoured with avidity by

> Greater attention ought to be paid to the culti-Albany; and it is only rivalled by the Newtown pip

(a) This is probably the glycinæ apios, or wild potato, which is nearly as good as the common, and which was when boiled, a favourite food of the Indians.

The Jerusalem artichoke, or helianthus tuberosus, grows

The bulb of arrowhead, or sagittaria saggittifelia, boila half long, and one inch and a half broad in the middle, is sometimes as large as a man's fist, and grows in vated by them. It ought to be carefully guarded against swine, who eagerly devour it. In a valley to the west of trade between the inhabitants of that valley and the se of the sea coast.

Our Indians also made use of the root of a vegetable which they called tackin, or tuckah, and which, Kalm says, is the arum virginicum, or wake robin. When fresh it has a pungent taste, but when roasted it is like potatoes It flourishes in moist grounds and swamps, a d often grows to the thickness of a man's thigh, but is

nearly extirpated by the hogs.

They also cat the dried seeds of the orantium aquaticum, called by them tawkee; they were boiled in water, and eat like peas, or made into bread. This plant was plentiful in moist and low grounds. Whortleberries or hucleherries, were dried by them and made inas fine as flour; mixed this substance with water, which took a milky colour, and was as sweet as milk.

berous productions are not the same. The Indians made

According to Lewis and Clarke, the Indians of Columbia river, cat the root of a species of thistle, forn, rish, liquorice, and a small cylindric root, resembling in fla-

vor and consistency the sweet polato.

(b) This production has been used by the Indians from Spaniards called Florida, and by the French La Louisiane, etc. by Daniel Coxe. esq. printed, London, 1711, it is thus described: "besides, this country naturally affords another sort of excellent corn, which is the most like it far exceeds our best oatmeal. This is not sown and or rushes. The Indians, when it is ripe, take handfulls, shake them into their canoes; what escapes them falling into the water, without any further trouble produces the next year's crop." Hearne saw it as far north tities of wild rice by the sides of the lakes and rivers north latitude, and found it evacuated, all the Indians having gone out to gather followin; and he says, that the Indian traders chiefly depend for their support ur-

<sup>\*</sup> Acerbr's Travels through Sweeden, &c. vol. 1 p. 340 | | Holous Fragrans.

<sup>\*</sup> Dr. Hosack. † Agrostis Stolonifera. 4 Spiwa Ulmaria.

for it. The Menomeni, a nation of Indians inhabiting to the westward." on the northwest of Lake Michigan, are called by the The reasons assigned by Carver, why this grain is not French, Fols Avoins, from this plant, which grows in seen in a state of maturity, to the east nor to the south great plenty among them. Henry, in his Travels in of the Great Lakes, are unsatisfactory. The northwest Canada and the Indian Territories, bought wild rice at winds are mitigated in passing over those immense bo-Lake Sagunal in great abundance; he says it grows in dies of water, nor is his assertion warranted by the fact sheal water, and the Indians gather it by shaking the This rice certainly flourishes to the south of the lakes, ears into cances. Hennepin says, that among the fols and we have the authority of Kalm to support us in statavoins it appears above the water in June, and is gathing that it grows to the east. The only difficulty exists ered in September, and that it produces more meal than as to the degree of latitude by which its growth is bound-European oats. Mackenzie asserts, that the Indians, on ed; and it is believed that Mackenzie I mits its northern Lake Sagenuja, depend principally for food upon fish, extension too much. Kalm says, that on the 16th of and wild rice, which grows spontaneously in these parts; July he saw it growing on the western side of Lake that there is abundance of it on the banks of a small Champlain, near Crown Point, in this state, and in the river which runs into the Lake of the Woods, about the 44th degree of north latitude; and again he mentions latitude of 49 degrees; that from Lake Superior to Lake that the zizania aquatica, or folle avoine, grows plenti-Winnipic, in latitude 50 degrees 37 minutes, "are vast fully in the rivulet, or brook, which flows somewhat hequantities of rice, which the natives collect in August low Prairie de la Magdalene, a small village on the easfor their winter stores. To the north of 50 degrees, it tern side of the river St. Lawrence, about 8 miles from is hardly known, or at least does not come to maturity," that the country between Lake Superior and the Mis-land taste almost as well as rice. - Dr. William says, that

Carver, in his travels through North America, states, that the fox river is rendered remarkable by the abondance of wild rice that grows on its shores, and that this grain, which grows in the greatest plenty throughout the interior parts of North America, is the most valuable of all the spontaneous productions of that country. Michaux, in his Flora Boreali Americana, makes three Exclusive of its utility, as a supply of food for those of species. the human species who inhabit this part of the conlinent, and obtained without any other trouble than that of gathering it in, the sweetness and nutritious quality of it attract an infinite number of wild fowls of every kind, which flock from distant climes to enjoy this rare repast, and by it become inexpressibly fat and delicious In future periods it will be of great service to the infant colonies, as it will afford them a present support, until, in the course of cultivation, other supplies may be produced; whereas, in those realms which are not furnished with this bounteous gift of nature, even if the climate is temperate and the soil good, the first settlers are often exposed to great hardships from the want of an immediate resource for necessary food. This useful grain grows in the water, where it is about two feet deep, and where it finds a rich muldy soil. The stalks of it, and the branches or ears, that bear the seed, resemble oats, both in the appearance and manner of growing. The stalks are full of joints, and rise more than eight feet above the water. The natives gather the grain in the following tember. manner: nearly about the time that it begins to turn from its milky state, and to ripen, they run their cannes into the midst of it, and tying branches of it together just below the ears, with bank, leave it in this situation three or four weeks longer, until it is perfectly ripe. About the latter end of Soptember they return to the river, when each family baying its separate allotment, and being able to distinguish their own property by the manner of fastening the sheaves, gather in the portion that belongs to them. This they do by placing their cannes elose to the branches of rice in such position as to receive the gram when it falls, and then beat it out with pieces of wood formed for that purpose. Having done this, they dry it with smoke, and afterwards tread, or rub off the outside husk; when it is fit for use they put it into the skins of fawns, or young buffaloes, taken off sack, wherein they preserve it till the return of then harvest. It has been the subject of much speculation why this spontaneous grain is not found in any other regions of America, or in those countries situated in the za sativa of the south same parallels of latitude, where the waters are as up south and cast of the treat Lakes, even from the probrador, produce any of this grain. It is true, I found wind, as I have before hinted, is much more powerful bushels an acre of this most excellent of the cerealia.

on wild outs, of which they purchase great quantities in these than in the interior parts, and that it is more from the savages; and that at an establishment on Red inimical to the fruits of the earth, after it has passed over Cedar Lake, near the Mississippi in the 47th degree of the lakes and become united with the wind which joins latitude, they give one dollar and fifty cents a bushel it from the frozen regions of the north, than it is further

Montreal; and that its seed are gathered in October, sissippi was formerly very populous, and produced wild it is a native of Vermont. A considerable difficulty rice in great plenty " Mackenzie's Voyages, Preface. exists with respect to the botanical arrangement and denomination of this plant. Linnaus, and after him Kalm, calls it zizania aquatica. M. Desfontaines, in his Tableau de L'Ecole de Botanique du Museum D'Histoire Naturalle, thus mentions it, quoting Linewus for his authority zizania aquatica grows in the northern parts of America, is an annual plant, and is alimentary.

Milacea,
 Clavulosa.
 growing in the watery parts of North
 America

3 Fluitans-at Lake Champlain.

Of the second he says, this is the zizania of Gronovius, which Linnæus has improperly arranged with the Sloanina.

Persoon, in his Synopsis Plantarum, designates, besides those enumerated by Michaux,

varieties, the first growing in Jamaica Aquatica under water, and the latter in the wa-Palustris, ters of North America.

And Terristris - on dry land.

Muhlenberg, in his ' atalogue of the native and naturalized Plants of North America, enumerates four speeies of zizania, or American riec.

1. Milarea-millet

2. Clavulosa-an annual plant, vulgarly ealled wild rice, or oats, grows in Pennsylvania, flowers in Sep-

3. Palustris-marsh; risave-Canada.

4. Fluitans-floating.

Dr. Barton considers the zizania elavulosa of Michaux, as the zizama aquatica of Linnæus, and says that it grows and ripens its seed as far north in America, as the latitude of 50 degrees, and that the zizania milacea of Michaux, is a very distinct species, and that both of the species are eaten by the todians of the countries adjaeent to the lakes. Amidst such a number of clashing anthorities. It would not become me to offer an opinion. It is possible, however, that the zizania of Lake Champlain, is only a variety of the follo avoine; and it is probably, a distinct species from the zizania of Pennsylvania. Providence appears to have intended this northern rice as a substitute for the rice of southern elimates. Its produce is abundant; its alimentary qualities are unnearly whole for this purpose and sewed into a sort of doubted, and the time may arrive, when the zizania aquatica of the north shall, under the hand of cultivation, attain to as high perfection, and contribute as much to the subsistence of the human race, as the ory

in strictness there are but two species of wheat; with parently adapted for its growth, as in the climate I treat beards, and without beards. Winter, summer, gray, of As for instance, none of the countries that lie to the duckbill, gray polard or fuller wheat, cone wheat, polouian wheat, Siberian spring wheat, Switzerland spring vinces north of the Carolinas, to the extremities of La-wheat, Egyptian beard wheat, murwaary wheat, brought from Barbary, German spelter, zeeland wheat, and fromgreat quantities of it in the watered lands near Detroit, ent tremaise, so called because it is only three months in between Lake Huron and Lake Eric, but, on inquiry, I the carth, all varieties of one or the other of these spe learned that it never arrived nearer to maturity than cies, have been in a great or less degree cultivated in just to blossom, after which it appeared blighted and England, and each has some peculiar recommendation. died awa . This convinces me, that the north west I have seen lands in this state which have produced 50

In the Transactions of the Linnæn Society, it is stated, that the blight of wheat, (uredo, frumenti,) in the west of England, which was attributed to an insect, was owing to a fungus which had been long sown in the stem of the wheat. Sir Joseph Banks, in an excellent essay on the blight in corn, annexed to Curtis' Practical Observations on the British Grasses, has embraced the same opinion, and says, that the blight is occasioned by the growth of a minute parasitic fungus or mushroom. on the leaves, stems, and glumes of the living plant; and he further states, that it has long been admitted by farmers, though scarcely credited by botanists, that wheat in the neighbourhood of a barberry bush, seldom escapes the blight; that the village of Rollesby, in Norfolk, where barberries abound, and wheat seldom succeeds, is called by the opprobious appellation of mildew Rollesby; that some observing men have, of late, attributed this very perplexing effect, to the faring of the flowers of the barberry, which is, in truth, yellow, and resembles in some degree, the appearance of the rust, of what is presumed to be the blight in its early state, and that it is notorious to all botanical observers, that the leaves of the barberry are very subject to the attack of a yellow parasitic fungus, larger but otherwise much resembling the rust in eorn. In opposition to the idea, that it is improbable that these fungi are the same, it is remarked that the misletoe, the best known parasitie plant delights most to grow on the apple and hawthorn, in Eogland, but that it flourishes occasionally on trees widely differing in their nature from both of these, and in the middle states of America it is most frequently found on the nyssa sylvatica, or sour gum, but to the southward anon oaks

An insect called the tipula tritici, or wheat insect has, destroyed in some places in England, about one twentieth part of the produce. An insect, called the 1chneumon tipulæ, deposites its egg in the larva, or eatterpillar, of the wheat fly, and this destroys it. Dr. Darwin gravely proposes, in his Phytologia, to counteract the pernicious effects of insects which produce blight, by propagating the larva of the aphidivorous fly. It is not yet settled whether the hessian fly is of foreign or domestic origin; although a species of tipula, yet it is not the one just mentioned, as I am informed .-The farmers on Long Island complain of the septenoial ravages of an insect which destroys their barley, ad which they denominate the army worm from its

numbers.

Dr. Barton has very justly remarked, that it is an object of the first importance to investigate the natural history of those in-eets; which are peculiarly injurious to as in any way, and that unfortunately our country, as much perhaps as any on this globe, abounds with such insects.

Dr. Smith, the celebrated president of the Linnæn Society, observes, that botany necessarily leads to the study of insects; for it is impossible to investigate plants in their native situations, without having our attention perpetually awakened by the infinite variety of those active little beings, employed in a thousand different ways, in supplying themselves with food and lodging, in repulsing the attacks of their enemies, or in exercising a more than Asiatie despotism over myriads below them, and he exultingly exclaims, that in England, no branch of natural history, after botany, has, for some years, had more attention paid to it than entomology: while with us, to adopt the language of Dr. Barton, "notwithstanding the importance of the science of entomology the history of our insects has hitherto excited but little attention."

(c) Mr. Green, in his discourse on the botany of the U. States, pronounces, that the florin grass is a native of this country; that it has been discovered in Sissex county, New Jersey, on the margin of the Genessee river, and on an island below the city of Albany. Whether this be the same as the florin grass of Europe, is still a question subjudice. In 1749, Kalm visited the island below Albany, and in his journal he has mentioned several of its vegetable productions: the agrostis stolonifera, if growing there at that time, escaped his penetrating eye; but, whether indigenous or not, we know that it has been imported and successfully cultivated, that its alimentary qualities, and its crops, are great beyond example and that it flourishes in defiance or soil, drongut, and elimate.

I do not know that saintfour, or sainfoin, (hedy-arum onobrychi ) which signifies wholesome hay, has succeeded as well in this country as in France, from whence it is derived. The milk of cows fed on it is nearly double, and makes most excellent cream and butter. It lattens sheep hetter than any other food, and horses require no oats, although hard worked, when they are fed with it. Its increase of produce exceeds that of common grass land about thirty times, and it will last from ten to fifteen years. It yields an aftermarth, or second crop. Curtis, in his Practical observations on British Grases, speaks lightly of the festuca ovian, and says that it appears to him applicable oily to the purpose of making a fine leaved grass-plot, that shall require little or no mowing. On the other hand, Withering, in his botanical arrangement of all the vegetables naturally growing in Great Britain, intimates that the superiority of the Spanish and English wool is owing to the abundance of this grass in the hilly pastures where the sheep are kept.

Curtis has enumerated twenty-five genera, and one hundred and twenty-three species of grasses growing in Great Britain, and has judiciously remarked, that to constitute the herbage of a good neadow, there must be a combination of produce, bateableness, and early growth. Bateable is altogether an agricultural or provincial term, and he uses it to express cattle's thriving

on the food they eat.

The best grasses of Europe have been neglected, and our indigenous ones have been, in a great measure, overlooked by us. Let our scientific men, our practical men, turn their attention to this and other important branches of husbandry, as yet scarcely noticed, and affording inexhaustible topics for investigation, and let them be encouraged in their labours by the observation of Bacon, that Virgil got as much glory of eloquence, wit, and learning, in the expressing of the observations of husbandry, as of the heroical acts of Æneas."

(f) This grass produces a fine perfume, and has the same effect on tobacco as the vanilla bean. It delights in a rich soil, and may be easily cultivated. It is greatly superior in its odoriferous qualities to the anthoxrutum odoratum, or sweet scented vernal grass, the only one of that kind which grows in England. Cattle are very fond of it, and it must produce the most delicious milk, butter, and butcher's meat. There is, however, great danger of its total extirpation, as it is very scarce. Indeed, the same danger is to be apprehended, and the same fatality has, no doubt, occurred in other instances. Hudson, on the 6th of September, sent a boat to sound the Kills between Bergen and Staten Island, and his men on their return reported, that the "lands were as pleasant with grass and flowers, and goodly trees, as ever they had seen, and very sweet smells came from them.' This is not now the case The grazing of cattle, the rooting of swine, the plough, and other implements of agriculture, have entirely destroyed a great number of the annual grasses and lams which formerly flourished in this country. Sever 1 persons told Kalm. so far back as 1748, that the loss of many odoriferous plants, with which the woods were filled at the arrival of the Europeans, but which the cattle have now extirpated, might be looked upon as a cause of the greater progress of the fever, for that the great number of those streng plants occasioned a pleasant scent to arise in the woods every morning and evening. The vegetable kingdom of our western country is uncommonly rich, and luxuriantly abundant, because cultivation has been but partially extended to it Hugs have produced great destruction among all tuberose and bulbous plants. Even the laurel tree of Carolina has become almost extinct in many parts of the country, owing to the depredations of domesticated animals.

Although some plants, like some animals, are no long er seen in our country, yet the field of botanical investigation is immeasurable and boundless. Our country embraces every variety of soil and climate, mountains, rivers, lakes and salt waters, and is the favourite depository of the vegetable riches of the earth. In the United States we are yet in the infancy of science.

The first edition of Linnæus' Species Plantarum, contains only 7,300 species. A curious amateur of botany took the pains to enumerate the plants described in Dr. Turton's translation of Gmelin's edition of the Systema Naturæ, and in a work of Wildenow, and found 2046 genera, and 19,503 species of plants, of which 638 genera lave but one species; 263 but two; 174 but three and 124 but four. And it is supposed that the whole number of described plants amounts to about 22,000

Mr. Jacob Green has accessed to his well written and interesting Address on the Botacy of the United States,

(delivered before the Society for the promotion of Useful Arts,) a catalogue of plants, indigenous to the state of New-York. This list, which Mr. Green admits to be incomplete, contains about 403 genera, and 1,283 species.

The catalogue of the hitherto known native and naturalized plants of Sorth America, made by that indefatigable and learned botanist Dr. Muhlenberg, contains but 863 genera, and not 2800 species. It is not unreasonable to estimate the whole number of plants in the United States, and their territories at 8,000 and as yet we have not described 2000. What an opening does this afford for the operation of scientific enquiry? no wonder that Linnaus was so anxious to visit this country. Catesby in his Hortus Europæ Americanus, published in 1767, truly observes, that a small spot of land in America has, within less than half a century, furnish ed England with a greater variety of trees, than has been procured from all the other parts of the world, for more than a thousand years past.

From information which has recently reached me, I am persuaded, that our Dutch ancestors paid more attention to the improvement and natural history of the country, than has been generally imagined. We are, country, than has been generally imagined. as yet, greatly in the dark with respect to events and observations during their occupancy of New Netherland, as they termed their country; but the means of information are amply within our reach. De Laert wrote a book respecting it, wherein he gives a very particular account of the Indians: and Megapolensis, an eminent Dutch minister, who formerly lived in this city, also published a work in this country, when a Dutch province; and I have now before me a manuscript translation made by the Rev. Dr. Bassett, of Dr. Van der Donk's History of New Netherland, published in 1655. It is very interesting, and it is to be hoped, that that worthy gentleman will meet with sufficient encouragement to publish it, and also a correct translation of De Laert and Megapolensis, for which no man in this country is better qualified. Van der Donk states, that a certain surgeon, a resident of New Netherland, had formed an extensive botanical garden, in which he planted many medical roots, which he cultivated from the woods adjacent to his abode; but by the removal of that worthy gentleman from the country, his bumane and patriotic exertions were lost to the world. This I undertake to say, was the first botanical garden established in this part of America. It appears also, from this work, that most of the medicinal and other berbs, with which the country abounds, were known to our Dutch forefathers; that they took uncommon pains to introduce the best cereal gramina, legumens, and excellent vegetables and fruit of various kinds, and have even cultivated canary seed; that they introduced the white and red, the cornelian and stock roses, wall flowers, tulips, imperial flowers, the white hly, and the hly of the valley, ladies' rose, violet, and gold flower, and that the country abounded with flowers peculiar to it, of the most beautiful kind, to which the European was an entire stranger; viz. the sunflower, the red and yellow lily, the morning glory, the white, yellow, and red marygold, a species of wild eglantine, the different kinds of the bell flower, and many others.

Our Dutch ancestors also turned their attention to improving the dyes of the country: great hopes were entertained from the wild indigo; and they not only supposed that the common indigo might be raised to great advantage, but they actually tried the experiment. Seed was imported from Holland. The first attempt failed, owing, as it was supposed, to an extraordinary drought which prevented the plant from coming to maturity: but another experiment completely succeeded: the seed was sown near New Amsterdam, (New York,) and a great crop was obtained, specimens were sent to the mother country, where good judges pronounced it of a superior quality. But what is still more extraordinary, is, that there is reason to believe that it was contemplated to introduce the famous orchile weed. When the spaniards discovered the Canary Islands, they sought for it as cagerly as they did for gold: it was prohable, that it was made use of to produce the gertulian purple of the ancients: and they also had in their view other vegetable dyes, which we cannot now accurately designate. "The crop p'ant," says Van der Donk, "for dying red, is not caltivated in New Netherland, but it is not to be questioned, that if it were tried it would yield I must repeat my wish, that this curious work may soon see the light. It appears from it that the country was so remarkably healthy at that time, that it was a strange thing to hear of a person being sick; that the east wind did not extend far west; and that the clima's was as mild at that period as it now is

# THE FARMER.

BALTIM RE, FRIDAY, JCLY 2. 1819.

We ought to apologise to our natrons, for the want of rariety in this number—it was occasioned by the desire to dispose of two long articles, which however interesting, and they are highly so, are, on account of their length, not so well suited to a weekly paper.

We have on file, original communications of the most valuable character, from various quarters, which we are impatient to lay before our readers, having no doubt but they will be pleased, as we have been, at the manufestation of ardent and increasing zeal for agricultural improvement in Maryland.—The example set by a few gentlemen, no less eminent for their industry than for their abilities, in writing on agriculture under their proper signatures, has bad the best effect.

The proceedings of the Agricultural Society of Prince George's, have been politely communicated through their Secretary, by order of the Society, for insertion in the American Farmer. They elaim an early insertion, both on account of their priority of date, to other communications received, and from the intrinsically able and interesting nature of their contents.

The address of Doct. Jos. E. Meuse, on Entomology, to the Agricultural Society of Maryland, at Annapolis, which they also did us the honour to request might have a place in this paper, was not received until the moment we are writing. It was published in the Maryland Gazette, on the 17th of June, but somehow slipped through our fingers.—We have not even now leisure to read it, but we shall be egregiously deceived, if it be not every way worthy of the particular notice bestowed upon it by the respectable society to which it was addressed. We hope to be able to give it a place in the Farmer after the next.

THE PLOUGH BOY.—Four numbers of a weekly paper, printed in Albany, under this title, have reached us. In size, plan, and objects, the PLOUGH BOY nearly resembles the AMERICAN FARMER; but not being printed so close, does not, percaps, contain so much. The deficiency in the quantity, however, if any, is amply made up in the superior quality of the matter. The price of the PLOUGH BOY is but \$3 per annum; the value ten times that to those who will read—and to those who think that nothing is to be learned by reading, in relation to Agriculture, it is uscless to say any thing about it.

Subscriptions for the Placen Boy will be received at this office with much pleasure.

#### PRICES.

Very little change if any has taken place in the more bulky articles of country produce since our last—Tobacco remains as at that date—t orn has been a little depressed—say now, at 48 to 50 cts. per cargo—Red Wheat is a little improved, \$1 15 was asked for it yesterday, and we heard of none selling under that—No new Wheat yet in market

## PRICES CURRENT

#### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Revised and Corrected et	ery.	Litare	uug.
ARTICLES. PF	R. RET	TAIL P	RICES
BEEF, Northern mess ob			
No 1	15		1
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## POETRY.

#### THE SCOLD AND THE PARROT.

The husband thus reprov'd his wife: " Who deals in slander, lives in strife. Art thou the herald of disgrace, Denouncing war to all thy race? Can nothing quell thy thunder's rage, Which spares nor friend, nor sex, nor age? That vixen tongue of yours my dear, Alarms our neighbours far and near. Good gods! tis like a rolling river, That murmuring flows, a d flows for ever! Ne'er tir'd, perpetual discord sowing! Like fame it gathers strength by going " "Hey day (the flippant tongue replies) How solemn is the fool; how wise! Is Nature's choicest gift debarr'd-Nav frown not; for I will be heard. Women of late are finely ridden, A Parrots' privilege forbidden You praise his talk, his squalling song, But wives are always in the wrong, Now reputation flew in pieces

Of mothers, daughters, aunts and neices: She ran the Parrot's language oe'r, Bawd, hussey, drunkard, slattern whore; On all the sex she vents her fury Tries and condemns without a jury.

At once the torrent of her words Alarm'd cat, monkey, dogs, and birds; All join their forces to confound her, Puss spits, the monkey chatters round her; The yelping our her heels assaults; The magpie blabs out all her faults; Pell, in the uproar, from his cage, With this rebuke outscream'd her rage:

A Parrot is for talking priz'd, But prattling women are despis'd. She who attacks anothers honour, Draws every living thing upon her: Think, Madam, when you stretch your lungs, That all your neighbours too have tongues: One slander must ten thousand get The world with interest Pays the debt."

From late London papers.

## EAF CUTION.

APRIL 28. On Wednesday last, George [60] Warden was executed at Edinburgh, for "abstract ing" money from letters in the Post-Office in ber and slender, she is of the middle statute, of exquisite deen, where he was employed as a clerk.- He died symmetry, rather en bon point; her complexion is very penitently; and just before he was swung off, of a brownish cast, her hair a jet black with beaufainted, and excited much sympathy in the immense titul arch black eye-brows, handsome black penecrowd of spectators which his execution had col-frating eyes, her features regular, and strikingly lected together. The following is the DYING bandsome. The ladies were highly gatified, and DECLARATION of this young man: May it passed great encomiums on the elegance of her perprove a monition to men in affice-clerical as well son, as laymen-who are in the habit of sponging their as dependants in office.

" Edinburgh April 13, 1319. "In order that the truth may hereafter be investigated, and that injustice may be prevented to the young men, clerk- in the diffe. ent post-offices, and that they may not be tempted by poverty, or the oppression of their superiors, to break their trust, 37 and like me to expiate their guilt on a gallows, I 75 deem that it may be of use, that I leave behind me n record a declaration of t e truth, as to the actual amount of my allowance from the post-office of Aberdeen, which was only 40l. I am by no means actuated, in this my last declaration, by any feeling of malice or revenge against the person of Mr. Dingwall; but I do so with the hope of saving others from being in any way under the necessity of committing a similar crime ; because had I been paid he salary allowed by government, the temptation in my power would not have been availed of. At the

same time I return my sincere thanks to the clergymen and others, for their kindness in visiting me while under sentence; and in justice, I cannot omit to mention the kind treatment I received from the Governor, Mr Sibbard, in making me as comfortable as my situation would admit of. I die in peace with all men, in the humble hope of pardon from God, for my sins and offences against the public.

GÉORGE WARDEN.

"P. S. I have to contradict the printed poem that was sold through the city of Edinburgh, as it was never written by me. I also deny that I ever abstracted but 51 from letters coming through the G. WÄRDEN!" post-office of Aberdeen.

#### ANOTHER TRIVELLING MACHINE.

Mr. Birch, the coachmaker, has presented the Duke and Dutchess of Kent, with a vehicle, called the Velocimanipede calculated to carry three persons, without a horse, and weighs only 100 pounds wit. The centre, or body of he carriage, is supposed to be for a female: the front is for a gentleman to sit on a narrow saddle to guide it. At the back is a small dickey to work the hind wheels by machinery. It went over a distance of ground of one mile in three minutes, and it could be kept up with ease at 8 miles an hour. Their Royal Highnesses expressed their gratification at the ingenious contrivance of a vehicle to carry three persons without a horse, particularly at the simplicity of the construction, and the ease with which it is worked.

#### THE CIRCASSIAN FAIR

This fair stranger was lately introduced by His excellency the Persian Ambassador to upwards of twenty ladies of distinction. She was elegantly attired in the costume of her country; her dress was a rich white satin fringed with gold, with a bandeau round her head, and wreaths of dimonds. She received her visitors with graceful affability, and they were highly pleased with her person and manners. She is not as has been represented, short

#### CURIOUS CIRCUMSTANCE.

There is now in the passession of ...r. Hayes, a hutcher of Southampton, a pig, with a wooden leg, on the off side before, and it appears to walk with little lameness or inconvenience This pig belonged to a disbanded soldier, who having seen many operations performed on his heroic comrades, on the glorious field of Waterloo, remembered enough of surgery to enable him to practice amputation with success upon the poor animal, when an accident left no alternative between the loss of the limb or a premature death.

PRINTED EVERY FRIDAY AT 45 PER ANN. FOR JOHN S. SKINNER, EDITOR,

At the corner of Market and Belvidere-streets, BALTIMORE.

BY JOSEPH ROBINSON.

## MERICA FARMER.

# BURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIRG.

Vol. I.

## BALTIMORE, FRIDAY, JULY 9, 1819.

Num. 15

## INTERNAL IMPROVEMENT.

FOR THE AMERICAN FARMER.

## THE BACTRIAN CAMEL,

As a beast of burthen for cultivators, and for transportation across the continent, to the Pacific Ocean.

By our arms, and our treaties with Great Britain, France and Spain, the entire possession and the absolute independent dominion has been acknowledged to us, over that vast portion of our continent, between the twenty-eighth and forty fifth degrees of north latitude on the Atlantic, and the forty first and fiftieth degrees on the Pacific Ocean. On casting an eve over the map, this immense region appears to be hooped and banded together hy the most extensive lakes or inland seas, and some of the noblest rivers on the globe. The spirit and ingenuity of our citizens have done much more already, perhaps, than ever was done by any other civilized people, to improve the navigation of such great streams, and thus to give activity and additional force to the influence of those extended commercial high ways, as bonds of onion and harmony, and as channels of profit and prosperity.

the territory along the coast of the Pacific, within our dominion, and for a considerable distance inland, to the foot of the first range of m untains, is very fertile; it is well adapted to the production of the grains and fruits of the atlantic portions of the union, and abounds with the greatest quantity of excellent timber, particularly ship spars, which surpass in lightness, elasticity, and strength, those of the growth of any other part of the world. The fisheries of the Columbia River, and the neighbouring inlets of the coast, have been well ascertained to be more accessible, safer, and fully as productive, as the best situations off Newfoundland. That the climate is saluhrious and healthy, is proven by the numerous, and robust population of Indians, that in ahit the country. Settlements, will no doubt, very soon grow up, and spread along the shores of the Columbia River with astonishing rapidity. and the young athletic powers of our government will, ere long, launch into its waters a fleet to move along the coasts of the Pacific, and take under its protection the commerce, which the enterprize of our citizens will soon create and extend over those seas, to an incalcolable amount, The passage from the Chesapeake, the centre of our Atlantic border, by sea, round Cape Horn, to Columbia River, and back, as proven by the numerous voyages of our North West coast traders, cannot be accomplished in less than ten or eleven months. These two great maritime, and highly heneficial borders of the United States, are, thus, by the vast southern stretch of our continent, almost completely separated, the one from the other, and divided into distinct spheres and ranges of maritime commerce; which, however, the obvious interests of the union render it indispensably necessary to connect by every possible and practi- of about fifteen mues a day; and, it is believed

caple means to the heart of the territory and popolation, by river, or by land transportation, or by both, and by the most rapid and certain communications. To enable the government to wield its potent energies with effect; and to give to the American people the means of exerting their enterprizing commercial spirit, to the greatest advantage, and to enable them to make due profit from the great resources of their country, it has become necessary, that a short, direct, and certain means of communication should be established into every quarter, to the most remote point, and particularly over the continent, to the Pacific Ocean.

Steam boats have effected much; our improvements and facilities of intercourse, in that way, have justly attracted the admiration of the civilized world; but there are physical difficulties and obstacles which that masterly invention can neither surmount nor remove, with all its skill and power. The navigation into the interior, along the Missouri, is very circuitous; it is short of the great object, that of reaching the Pacific, hy many hundreds of miles; because from the falls, there is, thence, a distance of about eight hundred miles over to the Columbia River, no navigation practicable for such vess Is of a y size; from the falls, downward, for a thousand or filteen hundred miles, the navigation is entirely closed by ice during the winter season. Therefore, whatever advantages may be derived from steam boat transportation of heavy articles, by the way of the Missouri, into the interior, it must certainly be abandoned as the mail route to the coast of the Pacific; and, also, I am inclined to helieve, as the route for the transportation of any articles across the continent, farther than Yellow Stone River. Beyond that point, other modes of conveyance must be sought for and applied; and the only means, at present, in our power, and capable of being so applied, are horses and oxen.

The oxen of the United States, are, in many respects, very serviceable animals; they are more patient of langue, bear worse treatment, may be sustained on coarser food; and, in the draft, are not so apt to become restive as horses; but they are more unwieldy, aukward, and much slower in their pace than horses. The oven of Spanish America, owing, perhaps, to a constitutional fierceness of temper, like the cattle of Span, from whom they are descended, are remarkable for their superior size, agility and quick step. They are commonly used for long journes in caravans of heavy loaded carts; and are, generally, able to travel, thirty or lorty days together, with no other food than the grass which they are occasionally turned loose to gather by the way, at the rate of about thirty miles a day .- The oxen of South Ameria, not only surpass ours in speed, but they travel as fast again as our best wagon horses. The west country wagons, travelling between batte more and Pittsburg, a distance of two hundred and forty miles, on an average require sixteen days to perform the journey; that is, at the rate

to be as fast as a loaded team is, in any country, Allowed to travel, on a journey, each day,

Supposing then, the distance from St. Louis to the mouth of the Yellow Stone River to be twenty five hundred miles: and allowing, that a steam boat will be able to ascend the River Missouri to the confluence of that stream, with as much ease as from New Orleans to St. Louis, it would be fifty days in reaching the Yellow Stone from St. Louis; and estimating the distance from the mouth of the Yellow Stone to that of the highest navigable part of the Moltomah, or the Columwa, to be one thousand miles, by a road equally practicable, with those from the Atlantic seaports, to the western country, he ond the mountains, the land transportation from the navigable waters of the Atlantic to those of the Pacific Ocean, will require a journey of sixty seven days for loaded wagons drawn by horses; and supposing the mail to ascend the river Missouri, and to pass over by the same roote, and allowing it to travel at the rate of one hundred miles a day, by land, it would be not less than one hundred days in reaching the Pacific from Washington, by way of St. Louis.

A communication from coast to coast, so circuitous and tardy, is opviously fraught with the most seriously evil consequences to the integrity and narmony of the union. It may be safer, and in general exposed to less risk, than that by the way of Cape Horn; but, in the winter season, of our hemisphere, it must be more interrupted and longer discontinued, than that by sea. It behoves us therefore, to turn our attention, in time, to some mode of procuring a more speedy and less broken intercourse with the opposite coast of our continent, before the settlements which must, very soon take root and spread along it, shall have their interests developed in other directions, and oe estranged from their natural and beneficial connection with their kindred of the Atlantic mother country. This communication I believe to be perfeetly within our power to effect, by means of the Bactrian Camel, whose constitution, seems to be, in all respects, formed to endure hardships, to encounter the severities of our winters on the great plains of the interior, and the bleak sterilitv of the rocky mountains, no less than the soltry ary deserts traversed by the rivers Platte and Kanses of the Missouri territory.

In speaking of this valuable animal, it must be recollected, that it is not the Arabian spec es to which I allude, whose uses are exclusivety confined to the roving inhabitants of that sultry region, beyond which they never stray, and without the and atmosphere of which, the anadruped seldom flourishes, and never multiplies; but, to the animal of the camel species, which traverses the vast plains of central Asia, from the Don to China; whose robust constitution and flectness, has enabled the wandering Tartars to explore, to make incursious, or to take refuge on every border, and in every quarter of the prodigiously extended regions of Asia, and eastern Europe, from the Don to China;

and from the upper waters of the Gauges to those of the Tobol and the Lena, and to spend the winter on the shores of the lake Baikal, in N. lat. fifty to fifty-five. The Arabian camel has been transported into Spain, and into some parts of Stanish America, within the tropics; but it did not succeed, owing to the occasional colds, and the winter of Spain, and the excessive humidity of America.—Wet and mud occasions the legs of the Arabian camel to swell, brings on a paralysis of its limbs, causes it to fall down suddenly, and of which disease the animal seldom survives long. This was observed of the Arabian camels taken by BONAPARTE from Cairo into Syria, along the

bumid district of the coast. " The Bactrian Camel, no less patient, durable and long lived,\* than that of Arabia, differs from it as materally in constitution, as in external form. This animal is distinguished from that of Arabia. in that it has two bunches, the body longer, the tail lower, and the hair mostly of a yellowish brown; instead of which the Arabian Camel or Dromedary, has only one bunch, and that very high, and which is generally covered with ash coloured hair. These animals are naturally tractable, and of great strength; for they can carry from fifteen hundred to two thousand pounds wt. and travel faster than the other camels, many leagues a day, without eating; and also, like them. will continue without drinking for twelve days together. These animals often weigh three thousaid pounds, and are from six to eight feet high The form of their body is neither disproportionate nor ugly; the head and nostrils are oblong; and the hips and mouth like those of a goat: the ears are hairy, small, and something like those of a horse; the neck is thick and handsomely arch ed; it lies low in the back, and seems to be inserted between the fore legs; from the throat, as far as the breast, it is adorned with beautiful hair, long and curled; the hair on the hack is vellowish; towards the belly brown; and under quite dark; the belly is gray; under the breast a bard skin forms a kind of shield or defence, which comes down in a point towards the fore legs, so that, when he lies down, he rests himself entirely upon it: there is a thick protuberance growing round the thighs, crowned with a tuft of long black hair; the tail is short, adorned at the end with a tuft of hair; the skin is thick and hard; on this account some naturalists suppose all perspiration suppressed, and that this may be the reason why the animal drinks so seldom. The Bactrian Camel is extremely hardy, and in great use among the Tartars and Mongols, from the Caspian Sea to the empire of China. It bears even so severe a climate as that of Siberia, being found about the lake Baikal, where the Burats and Mongols keep great numbers. Here they live during winter on willows, and other trees, and are by this diet reduced very lean. Attempts have been made to introduce this species into Jamaica, and the Barbadoes, but they did not succeed. In Tuscany, however, the grand Duke LEOPOLD, afterwards Emperor, introduced a tew, which mereased in a few years to two hundred; but so great a price was asked for them, that they have not been purchased into other parts of Europe, which is to be lamented, when it is considered, that they may be fed so very cheap, are twice as strong as a borse, and travel with a load twice as fast,?

"There are several rarities among these Ca- | dred miles from the city of Washington to the mels. What are called the Maihary, and Raguahl, are very swift. The last, which has a delicate shape, and is much inferior in size, never carries burthens; but is used to ride on; it is trained for running matches; and in many places, for carrying couriers, who can go above one hundred miles a day, for nine or ten days together, over burning deserts, uninhabitable by any living creature. In western Tartary there is a white variety, very beautiful, and sacred to the idols and priests. The Chinese call them by the expressive name of Fong Kyo Fo, or Camels with feet of the wind. This is very rare, being an exotic, and only kept by the great men .- It is to this swift, and delicate variety, that the name of Bromedary ought exclusively, to belong; as that word is derived from the Greek word which signifies swift running; whereas, in general the animal with one bunch is called In omedary: that with two, Camel. This beautiful breed is found in the highest perfection in China, and western Tartary."

Aided by the singular excellencies, powers, and fic these of the Bactrian Camel, in selecting our course over the continent, from the city of Washington to the Pacific Ocean, we might proceed straight forward, by the most direct route, regardless of wilderness or desert wastes, and of every thing, but the lofty precipitous walls of the Alleghany and the rocky mountains. We should shape our course on the back of such an animal, by the nearest and straightest way; and therefore, I will suppose the road to be traced out, solely with a view to such a means of conveyance. From the city of Washington, the present mail route may be pursued to St. Louis, a distance of nine hundred and eighty three miles, as set down in the list of Post Offices. From St. Lonis to Fort Clark, a few miles below the mouth of the Kanses River; thence passing the old Kanses villages on the Missouri, and ascending along the right bank of the great Mamehaw River, in a north westerly direction, and crossing the Platte river to the Pownee Loup villages, in lat. 41, to, long. 100, W; thence in a westerly direction towards the lake at the head of the Yellow Stone River in lat. 43, 10, long. 110, W; through what is called, the southern pass of the rocky mountains, to the left bank of a branch of the Columbia River. called the south fork of Lewis' River; thence descending into the great dry plain at the western loot of the mountain; thence, in a north west direction to the mouth of the Multomah River: thence to the settlement on the coast of the Pacific near the mouth of Columbia River.

From St. Louis to the big Horn River, near the eastern foot of the rocky mountains, the country according to every account, is one vast, uninterrupted, unbroken plain; consequently, the route need not deviate, either to the right, or to the lett, from the direct course up to the entrance into the mountains in the direction towards the head of the Yellow Stone River, and may, therefore, be safely set down at a distance of nine hundred and filty miles; thence, over the western foot of the mountains, there is no estimating the discance with any very great degree of precision, but making a liberal allowance for necessary deviations, the route, over that great ridge, cannot exceed three hundred miles; thence to the sea coast, at the mouth of Columnia River, by the way of the confluence of the Multomah, cannot be more than six hundred and fifty miles, making in the whole, a distance, of little less than twenty nine hun-

Pacifie.

The fleet Bactrian Camel, well broke for riding, which can, singly, travel for many days together, at the rate of more than one hundred miles a day, might with reliefs, relays, and care, be made to transport the mail over the continent at the rate of two hundred miles a day, with great ease: which would earry it from the city of Washington to the mouth of Columbia River, by the direct route I have designated, by the way of St. Louis, and the head of the Yellow Stone River, in fifteen days, at least: and, in one month, an answer might he thus obtained to any commounication from one coast to the other of our continent. This species of the Camel is, as docile and tractable, for the draft, as the horse or the ox; and travelling so much faster, might, with great advantage, be applied to the draft of carriages for psssengers, and the transportation of goods; and, with tolerably improved roads, would accomplish the journey, with relays, along the direct route I have pointed out, from the city of Washington to the Pacific in thirty days, with no distress, and little fatigue to the traveller. This speedy and certain mode of transportation, across the continent, and in every direction into the interior, and to the north and south western frontiers of our union, would be attended with the greatest and most important commercial benefits as well as prudigious political advantages.

But, in addition to these more general considerations, the Bactrian Camel would be the most vamable acquisition, that our southern and western planters and farmers could possibly obtain. The Camel, not only sustains itself on a less quantity of food, and that of the poorest and coarsest kind, such as would be rejected even by an Ass, but it will perform twice the labour of a Horse, either in harness or under the pack saddle. the Camel will brouze on the houghs and rough shrubbery of our forests, or feed on straw sprinkled with a little brine in preference to the best hay. We know, that from James River to the Mississippi, along the sea board, where the planting sys em of husbandry prevails, and where the land holders are chiefly engaged in the cultivation of Corn, Tobacco, Indigo, and Cotton, there is a very scanty supply of rack food made, or laid up for the support of stock. We know too, that during the hot summer months, the labour of travelting over the burning, sandy roads of the Carolias, Georgia, Alabama and Mississippi, is almost insupportable, and is exceedingly destructive to Horses. To all the south eastern portion of the union, therefore, the Bactrian Camel would be, by far, the most valuable labouring animal that could be introduced into it. And, since it has been found by actual experience, to increase, multiply, and dourish in Tuscany as well as in its native regions, there cannot, I should imagine, be a doubt in the mind of any one, that, all that portion of the U. states, from the Potomac south and below the mountains, as well as the great plains, west of the Ohio River, and on the Missouri would in a very high degree he suited to its constitution and habits.

I have heard of an idle project having been actually brought before the Legislature of one of the states, and being very gravely discussed, for encouraging, by law, the importation of English Phesants and Rabits, and for the sowing of scots broom. in some of the parren tracts of the state as a cover or them thereby to promote & increase the sports of the field, for the exercise and amusement of the

<sup>&#</sup>x27;The Camel, it is said, with ordinary care, lives, and is fit for service upwards of forty years.

Gentlemen Citizens. Why should not an effort be made to import so valuable an animal as the Bactrian Camet ? Would not the subject be wel: worthy of the combined efforts of a voluntary association of planters, and public spirited citizens to make up a fund to defray the expence of importing the breed? Are not the generally advantageous uses, to which the Bactrian Camel may be applied, sufficiently great and extensive to make the importation of the breed worthy of the serious attention of the national government? Let not this project be too hastily pronounced chimerical. Look over any of the well stocked, and cultivated farms of our country, and enquire, whence originally, came the various plants, and animals, which And a careful investigation will shew, that they have been gathered from every clime, and almost from every region of the habitable globe. Why not add the majestic, long lived, placid, and valuable Bactrian Camel to the number of the auxiliary labourers & carriers for the active citizens of this nation? The subject is worthy the attention of AMERICAN

### AGRICULTURE.

#### PRINCE GEORGE'S COUNTY.

JOHN S. SKINNER. Esq.

Sir-Being instructed by the Board of the Agricultural Society in Prince George's County, in consequence of an offer you have made to the Vice President thereof, Dr. W. A. Daingerfield. to forward certain papers to you for publication. in your very useful and interesting work, "The AMERICAN FARMER," I take the liberty in conformity to a resolution of the committee, to transmit the addresses of the President and Vice President herewith, accompanied with a letter from Mr. Lee, of Maryland tract, on the culture of In-dian corn; also a report by Mr. W Hebb, upon the amount and value of exportation of Tobacco from this county."

I enclose you herewith an abstract of our Laws. as revised on the 4th of May, 1818, and have the honor to sign with much esteem, sir, your obedient servant, A. W. PREUSS.

Sec'ty to the Ag't Society in Prince George's County.

Laws, &c. of the Agricultural Society of Prince George's.

I. The Society shall be styled-The Agricultural Society in Prince George's County, Maryland.

II. The Society's attention shall be confined to Agri-

culture, and rural affairs dependent on it.

III. The Society shall have a President, a Vice President, a standing committee of three members, (to be named by the President,) a Secretary, and a Treasurer, to be elected annually, by the tickets of a majority of the members present at one of the stated meetings, in October. The office of Treasurer being, in the infancy of our institution, too inconsiderable to form a separate duty, is to be incorporated with that of Secretary; and, in case of any vacancy, by death, resignation, or removal of any of those others, the place may be supplied by a new election, at the next stated meeting, to serve the remainder of the year

IV. A quorum for business shall consist of at least five members, including the President or Vice President.

V. At all meetings of the Society, the President shall exercise the usual duties of that office; all motions shall be addressed to him, and on all questions he shall colleet and declare the vote. In him is vested power to call to order, and open and close the proceedings; he shall also, have power to call special meetings, and to correspond with other societies; and in his absence the same duties are to b. performed by the Vice President;

Vice President be absent, the majority of the members present may (if forming a quorum) choose a President for that day,

VI The Treasurer shall keep the accounts in the book of the society, and when called upon by the committee, produce them for inspection. Whenever his office ends, he shall produce a fair and regularly stated account of all receipts, payments, and expenditures, and deliver it together with those boooks and all other property of the society, into the hands of his successor

VII. The Committee are to regulate and manage the pecuniary affairs of the society, to order expenditures to be made when necessary, and issue their order on the Treesurer, signed by them jointly. They are also to collect all useful and curious information, to be presented to the hody of the society, and to be the depositories of presents of animals, curious seeds, utensils of conslitute their comforts, delights and riches? late invention, made to the society by individuals or other associations, or acquired by purchase; and to render an account to the society of the use made of them, for the benefit of the members.

> VIII The Secretary shall have in charge all the books and papers of the society, and keep the same in exact order. He shall also register all letters which shall be written by him, by order of the President.

> IX The stated meetings of the society shall be on the third Mondays of May and October, at a place selected

by the society at each previous meeting.

X. The members of the society shall be entitled to the privilege of introducing such strangers, as auditors to the meeting, as are desirous to become members of the society. The candidate must be proposed at the op ning of the meeting, and is to be dected by a majority of two thirds of those present, in his absence, befor it closes. The Secretary then shall issue notice to the new member (if absent) of his being elected, to the following purport: "The agricultural society of Prince George's County, Maryland, have, at their semi annual meeting on the - last, elected you a member, in testimony of their confidence in your capacity and inchnation to promote the objects of their institution

X) For the purpose of defraying the necessary expenses of the society for paper, books, and postage, and to create a fund for other contingencies and objects, every member shall annually pay to the Treasurer a contribution of one dollar. This contribution shall be considered as due and payable at or before their first sta ted meeting in the year, and at the second meeting the Treasurer shall lay before the committee a list of the members, specifying who have and who have not paid their contribution, and if, after twelve mouth's arrear, any member still remains indebted for his contribution, such member shall, after demand for payment has been personally made on him by the Treasurer be consider ed as withdrawing from the society, and he no longer deemed a member of it, and the same shall be entered on the minutes.

XII. When any new role, or afteration in old ones, is proposed the same is to be entered on the minutes and considered by the society at the next meeeting, and if two thirds of the members agree, then to pass into a law.

#### PRESIDENT'S ADDRESS.

I much regret that experienced and successful, farmers are so difficent that they decline adding to the general stock of agricultural information, by imparting the results of their practice. That every one of us may be excited to contribute his portion to benefit his neighbours and his country. I will commence this address with an extract from Israelis' admirable work entitled literary charac-

"I have said, that authors produce their usefulness though their good is not of namediate application, and sometimes unvalued by their own generation. On this occasion, the name of Evelyn always occurs to me. While Britain retains her awful name among the nations of Europe, the Sylva of Evelyn will endure with her triumphant oaks-In the third edition of that work, the heart the first, how many millions of timber trees, besides infinite others, have been propagated and planted by the instigation of this work. It was an author in his studious retreat, who casting a prophet c eve on the age we live in, secured the late vict .ries of our naval sovereignty-inquire at the a !ira'ty and they will tell you that it was with the oaks that the genius of Evelyn planted."

The same character existed in France when De Serves, in 1599, composed a work on the cultivition of mulberry trees, in reference to the art of caising silk words. He taught his fellow civizens to convert a leaf into silk, to become the representative of gold. I lately received a medal, recently struck in remembrance of De Serres, by the a vicultural society of the department of the Saine."

This act of gratitude, in commemoration of the usefulness of De Series, will I hope be imitated in this country. We have too long erected statues and struck medals, only to transmit to posterity an admiration of heroes:-

"Who heap'd the plan with mountains of the dead." And we have too long neglected the benefactors of the buman race, who have improved the cultivation of our soil, and caused abundance.

That wood is becoming scarce and dear, is now the subject of general conversation; we ought therefore to begin planting with Evelyn's foresight - Were we to plant Locusts, Chesnuts, Cherry trees. Persimmons and others of quick growth along our fences, they would grow without any loss of ground, and amply repay us for a little trouble in the autumn, when we can most conveniently spare hands. These trees would not only be an ornament, but would shelter our fields from the drying winds which are injurious to our crops. My best turnips were produced last year, near a hedge. In England, every field is sheltered by hedges, and their wheat crops average 25 or 27 hushels an acre. In this country, we seem still to retain the aversion of original settlers to woods, and pride themselves on having lands cleared of every tree. I have planted this year, about three hundred trees, and in ten years, they will be worth 4 or 5 dollars each, not five in a hundred have failed: I mean to continue planting an equal number every year. It may be said that I shall not live to benefit by them, but I enjoy the thought that my successurs will mention with affection, that I reared the trees which affords them shade, or gives them fruit-nay, it I wished to sell my retreat, its value would be greatly enhanced by my trees. In England, the wood of an estate, is always sold separately, every tree being valued as so much ready money.

Think how advantageous it must be, to have locust trees ready for rails, all along our fences. -We might say with Dr. Watson, the Bishop of Landaff, that our own foresight and industry, bad created a fortune for our children, exclusive of the arable land. If we had trees along our fences, they would claim our attention as we went over our farms, and we would expedite and improve the growth by trimming them.

I have thanked Mr. Crawford, the Secretary of the Treasury, in the name of our society, for his exertions, to introduce all kinds of valuable seeds from abroad, and I have requested him to desire the captains of vessels, to bring plants of the Itaian chesnut, that they may be engrafted on our

I recommend the subject particularly to your attention, as the rapidly increasing city in our neigh and it it happen that at any meeting, both President and Jof the Patriot exults at its result, he tells Charles | bourhood, causes a great consumption of would

preferred by cattle to oats. The Hertfordshire people, in his time. gathered them in sacks, on pur-

pose for cattle and swine.

I have already quoted Sir Humphrey Davy's remark, that apple trees yielding apples of a particular kind, hecame extinct after a certain pe riod. Let each of us sow seeds to make a nursiderable article of exportation.

I am sorry that my anticipation of a great fall in the price of cotton, has been realized, and I much fear, that the price of tobacco will be much almost amount to the value of our tobacco.

reduced after next year.

ton last year, at And of Tohacco, at about, And of wheat, flour, &c. at about,

53,000,000 Making, Out of our whole exports of 73,000,000,these three we ought therefore, to pay our attention to a variety of new articles, which may afford a profit.

will nevertheless, produce 50,000 lbs. of pumparticle, so easily produced.

Opium I think might be advantageously cultivated in our country, as the poppy \* suits our cli-

\*The magic operation of opium, derived from this interesting plant, on the mind, is beautifully described in Darwin's Loves of the Plants-beginning thus:

"Sopha'd on silk, amid her charm-built towers, Her meads of asphodel, and amaranth bowers, Where sleep and silence guard the soft abodes, In sullen apathy PAPAVER nods. Faint o'er her couch in scintillating streams Pass the thin forms of Fancy and of dreams; Froze by enchantment on the velvet ground, Fair youths and beauteous ladies glitter round; On crystal pedestals they seem to sigh, Bend the meek knee, and lift the imploring eye.

By the same author, we are told, that the Poppy has many males, many temales. The plants of this class are almost all of them poisonous; the finest opuim is procured by wounding the heads of large poppies with a three-edged knife, and tying muscle shells to them to catch the drops. In small quantities it exhiberates the mind, raises the passions, and invigorates the body; in large ones it is succeeded by intoxication, languor, stupor and death. It is customary in India for a messenger to travel above a hundred miles without rest or food, except an appropriated bit of opinm for himself, and a larger one for his horse at certain stages. The I am so certain of this, that I expect to make my land, and a larger one for his horse at certain stages. The emaciated and decrepid appearance, with the ridiculous really worth \$200 per acre, by augmented productiveand idiotic gestures of the opium eaters in Constantiness. In Virginia, the average wheat crop, is from 5 to nople, is well described in the Memoirs of Baron de

For Mrs. O'Niel's beautiful ode, celebrating the praises and the powers of the Poppy, we refer the reader to the last page but one of this paper .- Ed. A. Farm.

during my short residence in Prince George's India Company with opium, at much less than a dows, and even their gardens to that herb which dollar per lb. if my memory does not fail me. The enables one hand to produce from six hundred to Evelyn recommends the loppings and leaves of cultivator who sells to the contractor, pays ground a thousand dollars per annum. Elms dried in the sun, as a great relief to cattle. rent about \$18 per acre and he is also cheated in My desire is, to suggest what may prove prowhen fodder is dear, and he says, that they are weight. Little children collect the milk, which fitable, when a superabundance of any one article. exudes from incisions made in the poppy's head. will, by a reduction of price, induce us to give at-The seed produces a very fine oil, without any tention to some others of benefit to ourselves, and narcotic quality, which is good for the table, and to the community. Our time of meeting enables also preferable to all others for white paint. My me to congratulate you upon the prospect of an physician in Asia, always produced opium from bundant harvest. my garden, to make his own laudanum, as he said, ed me to see my neighbor's cattle running over 60 or 80 that laudanum produced from purchased opium, acres, nearly one third of his farm, destroying all vegesery of apple trees, by which means we shall obtain a variety of fruit, and some may surpase even the Newtown pippins, which form now a considerable article of exportation.

In a tandamin produced from purchased opinin, and dropping their manure, only to be exhalted the strength, on account of the tation, and dropping their manure, only to be exhalted the surpassion of fruit, and some may surpasse even the Newtown pippins, which form now a considerable article of exportation.

In a tandamin produced from purchased opinin, actes, heard of the tation, and dropping their manure, only to be exhalted the surpassion of supplied the surpassion of supplied to be exhalted the surpassion of supplied their manure, only to be exhalted the surpassion of supplied their manure, only to be exhalted the surpassion of supplied their manure, only to be exhalted the surpassion of supplied their manure, only to be exhalted the supplied their manure, only to be exhalted th

I was pleased with my crop of turnips last Mr. Crawford, has estimated the exports of cot- vear, although I sowed much too late, for as po-31.000,000 tatoes failed, they enabled me to feed my cattle 10,000,000 and hogs, through the winter. This year, I am 12,000,000 preparing my ground better. The manure my cattle produced, has been of great service, and I have no doubt that my arable land, will in two the subject of the best material for fencing, by years, be capable of producing double what it endeavouring to describe some of the different articles have fallen in value, about 20,000,000; bid. At the first hearing of this, the mind calcu-kinds of thorn, most in use for hedges; I shall lates only a double profit to a farmer, but really now compare that of timber, which is the general his profit is more than quadrupled. Suppose the article of fencing, with that of a living thorn. It is stated, in a newspaper, that the seed of expence of seed, of ploughing, &c. to be two. Fimber is made into fencing in various modes, pumpkins, makes very good oil, I hope that and the farmer realises one third more; if his according to the convenience or fancy of the owsome of us will ascertain this by experiment. The crop is doubled, he obtains four from two, and his ner; some kinds are more durable than others, writer says, an acre of ground of Indian corn, estate will be annually improving.\* When I first and it is not in every case that durable timber purchased my farm, I was ignorant of the differ- can be had; therefore, such as we have, such kins, containing 2000 lbs. of seed, and that the ent qualities of soil, but have from experience de-must be made use of, and a considerable portion seed will produce two hundred gallons of oil termined never to cultivate a poor soil, without of labor is necessary to prepare it for the purpose, worth about a dollar per gallon. Should this previous manuring. Expence and vexation must whether of a durable kind or not; all is perishaprove unexaggerated, we may rejoice, that when always be the result of tilling exhausted land. ble in its nature, sooner or later, which ought netobacco falls very low, we have so profitable an Again let me recommend deep ploughing, it ver to be lost sight of in making the comparative frosts, and enables rain to penetrate law. My (more upon stone hereafter.) Thorn is the best neighbor, Mr. Tolson, sets us all a good example, material for a living fence; it seems to have been and exhibits abundant harvests.

good work. I expect every day a bull and two use at an early period, we have no reason to doubt cows, which will, I hope, improve the breed of that the thorn was made use of, especially when our cattle.

imparted, may prove useful to many.

I hasten to conclude, being conscious that com-

By this calculation, it is evidently more advantageous to have half your hands hauling manure, and to cultivate only haif your ground, because you will have an equal crop, with less expenditure of seed, and your To bushels per acre, as labor is dearer in this country than in Great Britain, it is the more important to cuiti vate less and produce more.

†The sorling system I must again and again recom-

which I have perceived much diminished even mate. In India the contractor supplies the East value to tobacco planters, who convert their mea-

seven dollars per lb. If each farmer made only confined his cattle in a small compass, and mowed grass one pound in his garden, the whole produce would and carried it to them, his land would not have been impoverished, and he might have collected manure to enrich it.

For the American Farmer.

#### HEDGING.

Having been led a little off the enquiry, into throws up new soil to be mellowed by winter estimate, either with stone, or a quick-set bedge formed by the Great Author of all our comforts. Our horses and our oxen, are too small to do for the purpose of hedging, and as hedging was in we consider its advantages, above every other I wish very much for tracts upon the different shrub that has been brought into use. It never kinds of corn and of potatoes. I left some pota- aspires to be classed with the timber of the forest, toes in my ground last fall, for experiment sake, but keeps always within the reach of controll and and am gratified by finding that they have all management. If planted when young into rows come up; these will give me a good supply during for that purpose, and afterwards neglected, (which narvest; the small ones returned to the ground, is often the case) until it rises to the common lter selecting the large ones in autumn, will height, 10 or 12 feet, and in that natural shape thus produce an early crop, without trouble, and erect attitude, it then becomes cumbersome Should this mode be a novel one, it being thus and unpleasing in appearance by obstructing a view of the farm. It may be cut off at a proper season near to the ground, and the cluster of mumcations upon farming, must appear of little young shoots that each stump will afford, will be sufficient, in two or three years, to form a hedge, in any other made of training which the owner may choose. Should an error happen in his first attempt, in the manner or form of training, the subject is not past recovery; it may be cut away a second or a third time, and so on, the root continuing good, so far as the writer has seen the frequent experiments made, which were nostly with the cockspur kind; though he has eason to believe the other kinds will bear a tke treatment, if necessary. All are tenacious of mend, as most economical and most profitable. It pain-life, and although they grow more luxuriant in a

good soil, yet they will live on the most unpro jas regards the repugnance of various vegetables to each The ground when first purchased, was apparently scattering stocks that were originally planted on the side of a public road, now a turnpike, as if in tended for a hedge, and became entirely neglected: the cutting down of the road by travelling, left those stocks on the brink of a clay bank, without soil or any kind of culture, exposed to the inclemency of the northern blast; at least for fifty years having a northern exposure, and no visible change has occurred that can be recollected; they are yet living, and as likely to continue as they were half a century past .- This is mentioned to shew the constitutional duration under the most steril circumstances, and I might, if necessary, not divers others of similar duration, hoping it may be sufficient to remove that deep rooted prejudice which has got possession of some minds respecting its durability, this unfavorable conclusion having no doubt taken place from seeing certain portions or spots in hodges that have failed and become dead, without tracing out the cause.

The writer has known several instances, from some local cause; the walnut or cedar tree growing in the vicinity of a hedge, is sure to cause decline in the part near to it, and ultimately death will follow if the cause is not removed. It is thought to be the farina of the cedar, but the walbut has produced the effect before it arrived to that state of maturity as to produce farina. It has been well ascertained, that the different kinds of tlorn have all been killed by those particular enemes, and probably there may be others equally

pemicious, if observed.\*

It is also reasonable, that a hedge should have the oll benefit of sun and air, as will be shown John S. Skinner, Esq. hereafter, by removing every obstruction to that

enjoynent.

tiferous poductions.

NOTE.

\*A work night perhaps be written on the ANTIPATHS of Plants, que as useful, if not as interesting as Danwin's "Loves" the Plants, "if undertaken by a writer possessing his geins and his erudition. Numerous are the facts which mint be collected, and cornous the deductions that would ollow, from the united labours of the Botanist and the hemist. They might even inform us, its hardy root anchourishes in the most barren soil,

the labour of the ltusb man, prosper highly in the presence of the locust tre while the chesnul oak, on the tother hand, seems to carripout it, I known's, beyond which no vegetable evilares penetrate; within its our and unkin 'ty presence of repulsion," beyond which no vegetable evilares penetrate; within its our and unkin 'ty presence of vegetable to strangistic and other objects of public utility—I rejud to the same of some hostid tree, in might lead to the presence of some hostid tree, instead of being of certain fruit is to be attributed to other causes—and saving from errors, as to causes, of courses it would save us from numerous errors, as to causes of vegetable tree, instead of being the discovery, that the of some hostid tree, instead of being to the presence of some hostid tree, instead of being to the presence of some hostid tree, instead of being to the ranked without causes—and saving from errors, as to causes, of courses it would save us from numerous errors in the world, within the view of the spires and domes dently reciprocated by me; and as a testimony of our metrupolis—and with me, I think you will have vein the world, within the view of the spires and domes dently reciprocated by me; and as a testimony of our metrupolis—and with me, I think you will have vein the world, within the view of the spires and domes dently reciprocated by me; and as a testimony of our metrupolis—and with me, I think you will be some facts in relation to a great and stupendous work, in the vicinity of this city, which deserves.

All your feelings in this respect, are ar the two with the world, within the view of the spire and domes dently reciprocated by me; and as a testimony of our metrupolis—and with me, I think you will be asy, who can tell its worth! I am not seduced from reason, by the visions of speculation.

One fact deserves particular mention, eighty—life to the reclaiming of more than four thousand two hour cats, which deserves are now kept upon these marshes, and the reclaiming of more than four thousand it would save us from numerous erro

ductive clay.—The writer has observed some other that would even lead us no longer to regard as of little value, being covered, in a great measure, fabulous, the existence of that famous tree in the plains of Java-where

"-No spicy nutmeg scents the vernal gales, Nor towering plantain shades the mid-day vales; No grassy mantle hides the sable hills; No flow'ry chaplet crowns the trickling rills; Nor tufted moss, nor leathery lichen creeps In russet tapestry o'er the crumbling steeps

No step retreating, on the sand impress'd, Invites the visit of a second guest; No refluent fin the unpeopled stream divides, Nor revolant pinion cleaves the airy tides; No handed moles, nor beaked worms return, That mining pass the irrem able bourn -Fierce in dread silence on the blasted heath Fell UPAS Sits, the HYDRA-TREE of death. Lot from one root, the envenom'd soil below, A thousand vegetative serpents grow, In shining rays the scaley monster spreads O'er ten square leagues his fair-diverging heads; Or in one trunk entwists his tangled form, Looks o'er the clouds, and hisses in the storm. Steep'd in fell poison, as his sharp teeth part, A thousand tongues in quick vibration dart; Snatch the proud Eagle towering o'er the heath, Or pounce the Lion, as he stalks beneath; Or strew, as marshall'd hosts contend in vain, With human skeletons the whiten'd plain. -Chain'd at his foot two scion-demons dwell, Breathe the faint hiss, or try the shriller yell; Rise, fluttering in the air on callow wings, And aim at insect-prey their little stings. So time's strong arms with sweeping scythe erase Art's cumberous works, and empires from their base While each young Hour its sickle fine employs, And crops the sweet buds of domestic joys!

New-York, June 26, 1819.

are contributing to the display and cultivation of ceptable for insects, reptiles, and water-fowl. All It has be observed, that a wooden fence will our internal resources, I must include the salu-the vegetables which grow in the vicinity of New decay diso, in a situation where the freedom of tary influence of your excellent Agricultural York, can be cultivated here to advantage—such air is oktructed by bushes, briars, or any rubbish, Journal— The American Farmer. We have long as wheat, rye, barley, oats, corn, hemp, flax, peas, so certan to prevail where attention is wanting wanted papers in this country, exclusively devo-heans, potatoes, turnips, beats, carrots, &c. In to keep edge rows or fence rows clean from pested to those great and fundamental branches of one place, I saw half an acre of excellent asparaindustry and enterprise, which sustain the great-gus, and on another spot a beautiful nursery of ness, the grandeur, and the power of empires. young locust trees. The future value of these Such publications have produced great effects in meadows, is indeed beyond calculation. Consider Europe; they will produce consequences of still for a moment, the rapid growth of our city; the more moment here, because, the field of improve-thousands who are annually added to our populament is more vast and fertile, than any nation, tion, and the high price of vegetables in our marbeyond the waters, has ever presented.

for example, whise is, that, according to the authority of our corresponent, the same thorn which strikes N. York, at the present period, in advancing the emporium of exchange at the mouth of the Hudwill sicken and the the richest loam at the approach improvement of her internal trade, her agricul son, and then calculate the value of more than of the walnut whosehade and countenance, are known ture, her manufactures, and her arts and sci-four thousand acres of land, as fertile as any in to contribute life anyigor, to many other individuals ences. All your feelings in this respect, are ar the world, within the view of the spires and domes

it would save us from numerous errollers, of course long four thousand two hundred acres, part of the three to five hundred cows could be easily ted tion of remedies—such an enquiry inistevelope facts tractlying at Houseen, and a part, at Newark, here.

by water, and subject to the perpetual inundation of the tides. It was so sunken and spongy, that a person could scarcely be sustained in walking upon it. It produced nothing but wild salt grass, and appeared uncongenial to valuable vegetation. the bold and hazardous design of reclaiming these grounds, was viewed by the public as a visionary scheme, whose result would be a complete failure is the attempt, and a loss of labor and The proprietors were, however, gentlemen of fortune and enterprize, and commenced the great work with zeal and resolution, and have now convinced the public, that their imputed freams will eventuate in solid realities.

A few days since, I visited these meadows out of curiosity, and was astunished at the grand and cheering prospect which they now exhibit. The proprietors have made seven and an half miles of embankment, which is sixteen feet wide at the base, and five feet high, and one hundred and twenty miles of ditch, of different depth and width! Thirteen hundred acres are completely reclaimed, and the soil so firm and solid, that armies might contend upon it, and chariots be driven over it with safety. The remaining part of the meadow is in a state of rapid improvement, and will soon be in a complete state of preparation for the growing of crops. Four hundred tons of excellent hay were cut upon them last season, and in many places, the production was as great as five tons to the acre. Forty acres in one place, is now covered with the most superior rye, and fields of corn, oats, and wheat, are flourishing in luxuriance, where but a short time since, nothing Dear Sir-Among the important causes which appeared but the wild sea grass, and a dreary reket; consider the vast depot, which New York You have congratulated me, upon the bold and will form, when the commerce of our great lakes,

The improvement of these meadows presents another important consideration. Draining and embankment, are but little understood by the eveple of this country. Our vast and vacant regions of fertile lands, at the west and the south, have precluded the necessity of that rigid cultivation of waste lands, apparent over the face of Europe -As population, however, clusters upon our seahoard and upon the borders of our great rivers. the expediency of converting such lands to value and fertility, increases. By many intelligent men, it has been calculated, that should all the marshes, and meadow lands of New England, he drained and embanked, where necessary, that she could sustain twice her present population. Whether this be correct or not, if the eastern states become. as they will, a great manufacturing country, the calculation applies to them with great force. Vithin the vicinity of the city of New York, there are fifty thousand acres of waste land, similar to Swartout's Meadows. Is not the act of draining and embankment thereof of much consequence to this country? If the whole of this great tract of fifty thousand acres, within our sight, as it were, was completely reclaimed, the effect upon our marke s, and even upon the health of our city, would be abundantly visible.

In making embankments, many improvementhave been made by the proprietors of these reclaimed meadows. The muskrat has often been found very destructive to embankments, by perforating the mound in a thousand places, and thus defeating its very object. The great error was discovered at once by the Messrs. Swartouts, and remedied. The great error in most embankmenthas been, that they were thrown up too near the water's edge, and the ditch made next to the main land, instead of being made next to the wa ter. This induced the muskrats to open channels and communications through the barrier, from the water of the river and the ocean, to the water of the ditch. This trouble is avoided by making the embankment at a considerable distance from the great body of water to be excluded, & having none on either side of it. No difficulty will ever be felt from these little animals of toil and enterprize, if the same plan is adopted.

in cutting channels or ditches, it has been found most expedient to have the sides slope more than is usually the case, coming to a point and forming an obtuse angle at the bottom. In this way the ditches cleanse themselves.

During one year, one hundred and eighty five men were daily employed in improving the New ark and Hoboken meadows; and I have been informed by the proprietors, that they can now drain and embank at an expence one third less than they could when they commenced that magnificent work-so much for the lessons of experience and observation!

The soil of these meadows is a rich, black loam, which appea s to have been formed by deposits from the ocean, and the long and repeated decay of vegetable matter. There has been a well sunk forty feet, and the soil appears still the same. The surface of the soil rises as you go from the intenor towards the ocean, and is the highest near the edge of the water. The same circumstance occurs in viewing the marshes of England.

Draining and embankment are of great importauce in Europe. The moors of Holland, and the bogs of Ireland, have long been recognized as an evidence of the fact. In England, this method of improving lands subject to inundation, has been lof the former place.

n England by the Romans. The Saxons carried t to a considerable extent. At an early period in G. Britain, when lands were wrested from the sea, it was called "inning." In the days of Edward 1. Edward II, Elizabeth. James I, Charles 1, and Charles II, as well as in the days of Ohver Cromwell, the draining and embankment of lands was made the subject of Parliamentary concern, and important acts of Parliament passed on the subject. The Bedford Level which takes its name from being drained under the direction of Francis, Earl of Bedford, contains 309 000 acres. Ronney Marsh includes a tract of land of more than forty thousand acres. Gui tord · arsh contains between three and four thousand. The Dymchurch Wall, in the county of Kent, is an immense embankment, and forms a road for carriages from Hithe to Romney. It is from 10 to 00 feet high from the surface of the marshes, and extends three miles. Besides draining the marshes, great advantages have been realized in England, by draining the fens. I mention these facts to shew what other countries have done, and what we can do.

I could detail many more facts of interest, but conclude by observing, that I deem the three Messrs. Swarrours entitled to every expression of praise, and every act of public patronage, that can reward great, hold and successful projects, whose accomplishment is blended with public u i-They have wrested a sunken, dreary, un healthy waste, from the ocean, and we shall soon see it covered with luxuriant verdure, waving fields of grain, gardens, groves of Locust, and whitened with flocks. And yet this stupendous work excites but little interest in our city! There are thousands of enterprizing, public spirited men. justed in great plans of improvement, who have neyer crossed the Hudson, to view one of the most magnificent undertakings that has ever distinguished the liberal spirit of this great state. But this car not long he the case; public justice and public gratitude will soon awake, while we have those who project vast plans to develope the resources of our interior, and execute them by the exercise of public authority; we shall not forget individuals, who boldly march in the face of pub lic ridicule, and raise a noble monument by their individual efforts, which will commemorate their names while public benefactors are esteemed and With great respect. remembered.

Four ob'nt servant, CH. G. HAINES.

#### NOTE BY THE EDITOR.

\*How many feet does the tide rise or fall at New York? There is in this respect a very great difference even between the Delaware and the Chesapeake-the rising and falling very much less in the latter than in the former. How is this to be accounted for-and is it practicable to reclaim marshes subject to overflow, where the tide does not ebb and flow more than three or four feet, as in the Chesapeake? To this interesting topic we in vite public attention, as it is well known that there are now many thousand acres of profitless marsh on the tributary waters of the Chesapeake, which would, if reclaimed, be of incalculable value to the owners, contributing alike to their pockets and their health.

#### MARRIED,

On Tuesday evening last, by the Rev. Dr. HUNTER, at the residence of E. W. Duval, in the city of Wash ington, Wilson Nesbitt, Esq. late a Representative in Congress, from South Carolina, to Miss Susan T. DUVAL,

carried to a great extent. It was even commenced [ From the Practical American Gardener, published by Fielding Lucus, jun.

## For the month of July.

[See page 120.]

Collect seeds.

Collect all kinds of sceds, as they come to full maturity, cutting off or pulling up the stems, with the seed ereon, as they ripen, and spread them in an airy place, where they can receive no wet, in order that the seeds may dry, and harden gradually : carefully turn them occasionally, and observe not to lay such a quantity together, as will cause them to ferment. When they are sufficiently dry, beat out and clean the seeds, and lay them by in boxes, or bags, labelling each kind.

Gather berhs for drying and distilling as they come into flower, and dry them in the shade. Gather Chamomile, marygold, and such other flowers as may be wanted, which may be now in bloom. Spread the flowers in the shade till sufficiently dry, and then put them in paper bags, &c

Sage, hyssop, thyme, lavender, winter savory, and many other kinds, may still be propogated, by slips of the present year's growth, giving them shade, and occasional waterings till rooted. Plant them about three inches in the ground-

Sowing Peas.

In the last week of the month, sow a crop of the golden hotspur peas. Water the drills, and let the peas be soaked in pond or soft water, five or six hours, before sowing should the season prove moist, they will produce early in September.

General Remarks.

Earth up your cabbages, okras, peas, kidney bears, &c. this will greatly refresh them, and protect their roots and fibres from the intense heat of the son.

Diligently destroy weeds, before they seed, and immediately carry them out of the garden. Give witer, whenev r it appears necessary, and let this be aways done of an evening that it may have time to settledown to the roots, before the morning sun exhales it

Pull up the stalks of beans, cauliflowers, cabages, and the haulm of peas, and other plants which have done bearing, and clear the ground; for if thes are suffered to remain, to ey may harbour vernin to ac injury of the adjoining crop.

Wall and Espalier Trees.

Examine, carefully this month, wall ad espalier trees, rubbing off all irregular shoots, and training in all such regular growths as are designer to remain; p ck off all punctured and decay or fruit, ake them out of the garden; also such as have falls, and destroy them, otherwise the worms, which are the fruit, will soon come to the fly state, and commerce their depre-

Suffer no shoots to remain on the sicks of the graftd or hudded trees, which would coamly rob them of their proper nourishment.

Before the fruit begins to ripe hang up glass vials filled with boney and water, or sear and water, in different parts, among the wall, palier, and standard fruit trees, in order to destroy asps, ants, &c.

Clean the Biders

Clean the Bders

Hoe and clean the ground out the wall and espalier trees, to destroy the wils, which would rob the trees of their just portion clourishment.

General cervations.

Be particular in attend; to weeding, shading, and watering, as directed in it month, which see

You should continue train the evergreens, as you desire, and trim off al\*Innecessary shoots from forest trees and others.

trees and others.

s, Budi<sup>g</sup> or Inoculating, or iculating of cherries, plums, pears, The budding or by many gardeners to be performance to the middle tes, in this month, but it would be ed in the middle n done, as described last month, better to have determined the wood will separate from the which see, pro-

eye of the budded on plum stocks, or those of its Apricots, be done in this month, own kinds, General Observations.

Some of early productions of the garden may now be gather for use. Pick and carry away all decayed

and fallen fruit, and if any of the trees are cankered, or have much gum, cut out the decayed part, and rub-tar over the wound. It would be of use to turn pigs into the orchard, at this season to eat up the decayed fruit, and destroy the numerous insects therein.

Bulbous and Tuberous Roots.

Such bulbous roots are now to be taken up, as were not sufficiently matured, nor their leaves decayed last month, so as to be suitable to be taken up then, as ornithogalums, bulbous irisis, martagon and other lilies. Plant the roots of fritilarias, erown imperials, dens canis, and such other bulbous and tuberous rooted flowers, as do not endure to be kept long out of the ground; and this being the season, when the roots are not in action, is the most suitable time for transplanting them.

The crown imperial may be treated as follows: lay a large fresh cow dung, in the place you design to set the crown imperial; then in the centre fix the root, crown it with another large fresh cow dung; after this cover the crown of the plant, about six inches with light rich

Carnations and Pinke.

The choice carnations and pinks should be attended to, as directed in last month. Continue to propagate them, by layers and pipings, as directed in June

V. hen the layers are properly rooted, which will be the case with most sorts in four or five weeks after laying, provided they have been kept regularly moist, and screened from the heat of the mid-day sun, they are then to be taken off from the parent plant, with about half an meh of the stalk which connects them, and immediately planted in pots, one, two, three or four in each. The pots should be filled with the compost heretofore recommended, and when they are planted the pots should be buried to their rims, in a convenient airy place, and arches of hoops placed over the bed, on which to lay mats, to shade the plants from the sun, till well rooted, and growing freely; also to protect them from heavy torrents of rain.

Here they are to remain till November, when they must be removed into their winter department. Other lavers may be planted in beds of rich earth, where they are to remain till September, when they may be taken up and planted where they are to flower. Pinks may be managed in the same manner.

Sensitive Plant.

The sensitive plants, which have been raised in hot beds, may, about the first of this month, be brought out into the open air, and placed in a very warm situation, for they delight in much heat. Some ought to be kept constantly under glasses, for when fully exposed to the weather, they loose much of their sensibility.

Gathering and Collecting Seeds. Collect all the different sorts of seeds, as they ripen: spread them upon papers in a dry shady place; and when sufficiently hardened, let them be carefully preserved in their capsules or pods, put up in paper bags, until the proper season for sowing them.

The seed of geraniums, xerantheums, and of any other quick growing green house plants, may now be sown, and if properly treated, will attain a considerable size before winter.

#### ---IMPROVED HARROW.

From the Memoirs of the Virgnia Agricultural Society.

## TO DR. JOHN ADAMS,

Secretary of the Virginia Society for promoting Agriculture. JUNE 6th, 1818.

DEAR SIR-Permit me, through you, to present our Society with the inclosed drawing of a Double-Harrow, designed principally for the culture of Indian Corp. It is an implement which I can venture to recommend, having used it for two seasons, I think, with great advantage. It requires two horses or mules to pull it, and will execute as much work at one stroke, as a singlehor-e plough will at six or eight. The teeth, which are thirteen inches long, one inch square at the large end, and tapered to something less than three quarters, and cutting within five mehes of each other, penetrate to the depth of about six mehes; and pulverise the land thoroughly, (if not very stuff,) from one water furrow to another, where the beds are only five and a half feet wide. As the Harrow is intended to ruo on each side of the core, you may make the teeth next the corn cut

as near as you please by screwing up the coupling bolts which are long enough to admit also of a considerable extension, the drawing them as close as practicable, diminishes much the labour of the band hoes, which after these flarrows, have little else to do, than merely to weed the narrow space left between the teeth running next the corn. I have used them both before planting, and immediately previous to nursing. Their superiori ty to any stiff harrow that ever I have seen, consists, as the drawing will shew, in the coupling bolts, allowing all the teeth, ten in number, to act at the same time, however irregular the surface may be over which they

The scale of the drawing is one inch to the foot, the size of the timbers four and a half by three and a half

I remain, Dear Sir.

Your obedient Servant, JAMES M. GARNETT.

P. S. Although the following directions, in regard to the harrow-handles, may not generally be thought necessary, yet as some may think they ought to be given, I will add them. The proper place to insert the handles is about one foot from the hinder end of the pieces through which the coupling bolts pass. These handles should slope a little backwards, and having no connex-

ion, as in a plough, should diverge from each other at

J. M. G.

the top, in such a way as to keep the handles at a convenient distance apart. In the following engraved sketch, the scale is half an inch to the foot.

PLAYING OFF A JOKE.

A regiment of horse in King William's time being quartered in Canterbury, and the archbishop being then there, he invited all the officers of the regiment to dinner. One of the cornets being obligod to keep guard that day, and lamenting his misfor tune that he could not have the honour to dine with the archbishop, bethought himself of this stratagem. He knew that one of his brother cornets was gone out of town, and would not return till evening; he determined therefore to wait for him at his lodgings, and frighten him by a fal-e message from the archbishop Accordingly when his comrade arrived, be addressed him thus. "Tom, I believe I shall surprise you." "Why," says Tom, "what the devil is the matter?" "No great matter at all," says his comrade, "only the archbishop has sent for the officers to hear them say their catechism." "The devil he has," quoth Tom, "then I am ruined, horse and fuot, for as I am a sinner, I can't say three lines." "Never be troubled about that," says his comrade, "I can say mine every word, and if you

will mount guard for me to-morrow, I will go in your place." "With all my heart," says Tom, "and thank you to boot;" so the next day they all, except Tum, dined with the archbishop. His lordship, being a very polite man, told the colonel, that he hoped all his officers were there; for he intended it as a general invitation. The colonel told him they were all there, except one gentleman, who was obliged to mount guard. The archbishop took no notice of it then, but the next day sent his servant to the absent gentleman, to desire his company by himself. Tom had no sooner received the message, than he ran frightened out of his senses to his comrade to make his complaint "Ah, my friend," says Tom, "it is all in vain, I must go at last, the archbishop has sent for me" "Never mind it," says his comrade, "you will do very well; he did not ask us above one question or two " Tom being thus prepared, went to the archbishop's, where he was introduced into a parlour. At length his lordship came in. "Sir," says the archbishop, "I am sorry I could not have the pleasure of your company yesterday; may I crave your name?" "Thomas, my lord," replied the cornet. "What countryman?" says the archbishop. "My godfathers and godmothers," replied the cornet. "I do not mean to catechise you," said the archbishop, and thus the cheat was discovered.

BALTIMORE, FRIDAY, JULY 9, 1819.

CURRENT PRICES OF COUNTRY PRODUCE-AS-CERTAINED BY ACTUAL SALES-WITHIN THE LAST WEEK.

LIVE STOCK. Fourteen bullocks-sold by Mr. WILson, near Charlestown, Virginia, averaging about 750 wt. each-to the Messrs. Rusk's, for \$9 50 per hundred .-The meat, such as we saw in Mr. Rusk's stall, was equal in fine quality, to any we ever saw—it sold, the prime pieces, for 121 cents per pound. Two of the bullocks thickens, 2 50 to \$3 per dozen— Young Geese, 62½ cents each.—Veal, from 10 to 15 cents per pound—Mutton, 6 to 8 cents—Bacon, retail, 12½ to 15—Salt Beef, prime pieces, per pound 8 to 10 cents—Salt Pork, 9 cents— Eggs, per doz. 25 ets - Snap Beans 375 cents per peck -Potatoes, new crop, 50 cents per peck-Herrings, per barrel, 2 75 to 43 for No. 1-No. 2, 50 cents less-Pork, per barrel, 16, 18 a \$20, according to quality.

Tobacco, Patuxent, 8 to \$10 and 10 a \$12 according to quality—some sent by Mr. Crane, near Parker's Creek, Calvert County, sold by Mr. John Spicknall, for \$11, quality, long brown; some wagon Tobacco, on Wednesday, for \$1250; Corn, Red and White, 50 cents, from Delaware, yesterday—Rye, from same place, sold yesterday, 100 hushels, for 65 cents—Red Wheat, from Fairlee Creek, Kent County, for \$1 15-about 50 bushels of new Red Wheat in market yesterday morning— \$1 12½ was uffered, and \$1 15 asked—Oats, 50 cents.— Hay is from 17 to \$18 per ton-Straw, \$10.

TO CUERESPONDENTS.

In our next, we shall proceed with the transactions of the Agricultural Society for Prince George's County, and expect, in the same number, to present our readers with the excellent address of Dr. Jos. E. Meuse, to the Agricultural Society at Annapolis We hope also, to squeeze in the communication from a Young Farmer .- It has been postponed-not from want of great respect, both fuc the reflections and the writer-but for want of room.

Our patrons may expect soon to see-Artificial Grasses, Manures and Live Stock, in all their varieties and bearings-treated of in this paper.

We have received from several persons, samples of the growth of Chile Wheat, brought by Judge BLAND .--Those who were furnished with samples, are requested to communicate their observations and opinions to the Editor of the American Farmer.

## PRICES CURRENT

AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Nevisea and Corrected	cici	g Inarsaug.
ARTICLES.   t	ER.	RETAIL PRICES
BEEF, Northern mess	ıbı.	17
No 1	1	15
No 2	,	13 50
2,000	b.	16 18 20
Butter, Ferkin		33
Coffce, first quality, second do	-	27 28
Cotton,	l	27
Twist, No. 5,	j	45
No. 6 a 10,	}	46 50
No. 11 a 20,	]	53 S0 80 1 20
No. 20 a 30,		93
Chocolate, No. 1, No. 2,	- 1	28
No. 3,	- 1	25
Candles, mould,	box	20 22
dipt,	ĺ	18 19
spermaceti,	ıb.	45 scarce
Cheese, American, Feathers,	10.	60 65
	qti.	3 50
herrings, Susquehannah,	ы.	2 75 retail
mackarel, No. 1 a 3 -		9 12
shad, trimmed,		7 75 7 87
Flour, superfine,	bbl.	5 50 6 5 5 50
fine, middlings,	551.	4 50 5
rye,		4 a 4 25
Flaxseed, rough,	cask	none.
_	pnep	do
	lb.	do   12   15
Hides, dryed, Hogs lard,		12 13
Leather, soal,		25 30
Molasses, Havana,	gal.	62 1-2 75
New Orleans, -		75
sugar house,		1 1
	gal. bbl.	1 50 18 a 20
PORK, mess or 1st quality, - prime 2d do	001.	16 a 17
cargo 3d do		14 a 15
Plaster,	ton	5
B	bbi.	1 75
Rice, SPIRITS, Brandy, French, 4th proof	lb.	6 3
peach, 4th proof	gan.	1 25 1 50
apple, 1st proof		75
Gin, Holland, 1st proof	ĺ	1 50
do. 4th proof	İ	20 20
do. N. England Itum, Jamaica,		50 60
American, 1st proof	1	75
Whiskey, 1st proof		50 62 1-2
Soar American, white,	lъ.	18 20
do. browa, -		9
Sugars, Havana, white, brown,	}	19 15
loaf,		25 28
lump,	ib.	20 a 25
Salt, St. Ubes,	bu .	
Liverpool, ground,		75 1
Shot, all sizes, TOBACCO, Virginia fat,	lb. ewt	7 12
do middlings,		6 50
Rappahannock,	1	5 5 50
Kentucky, -	i .	6 50 7 50
Kentucky,	l.,	1 * * * * * * * * * * * * * * * * * * *
small twist, manufactured,	Ib.	25 37
small twist, manufactured,	lb.	25 37 50 75
small twist, manufactured, pound do. TEAS, Bohea,	lb.	25 37
small twist, manufactured, pound do TEAS, Bohea, Souchong, Hyson Skin		25 37 50 75 63 75 a 100 75 a 150
small twist, manufactured, pound do.  TEAS, Bohea, Souchong, Hyson Skin Young Hyson,		25 37 50 75 63 75 a 100 75 a 150 1 25 a 150
small twist, manufactured, pound do.  TEAS, Bohea, Souchong, Hyson Skin Young Hyson, Imperial,		25 37 50 75 63 75 a 100 75 a 150 1 25 a 150
small twist, manufactured, pound do.  TEAS, Bohea, Souchong, Hyson Skin		25 37 50 75 63 75 a 100 75 a 150 1 25 a 150 1 75 80
small twist, manufactured, pound do.  TEAS, Bohea, Souchong, Hyson Skin Young Hyson, Imperial,		25 37 50 75 63 75 a 100 75 a 150 1 25 a 150
small twist, manufactured, pound do.  TEAS, Bohea, Souchong, Hyson Skin Young Hyson, Imperial, WOOL, Merino, clean, unwashed, crossed, clean, unwashed,		25 37 50 75 63 75 a 100 75 a 150 1 25 a 150 1 75 80 40
small twist, manufactured, pound do.  TEAS, Bohea, Souchong, Hyson Skin Young Hyson, Imperial, Univashed, - Common country, clean,	lb.	25 87 50 75 63 75 a 100 75 a 150 1 25 a 150 40 65 35 37
small twist, manufactured, pound do.  TEAS, Bohea, Souchong, Hyson Skin Young Hyson, Imperial, WOOL, Merino, clean, unwashed, crossed, clean, unwashed,	lb.	25 87 50 75 63 75 a 100 75 a 150 1 25 a 150 4 40 65 35

## POETRY.

ODE TO THE POPPY

OT for the promise of the labour'd field, Not for the good the yellow harvests yield, I hend at Ceres' shrine;

For dull to humid eyes appear The golden glories of the year; Alas! a melancholy worship's mine! I hail the goddess for her scarlet flower.

Thou brilliant weed That dost so far exceed The richest gift gay Flora can bestow; Heedless I pass'd thee in life's morning hour (Thou comforter of woe)

Till sorrow taught me to confess thy power. In early days when Fancy cheats, A various wreath I wove

Of laughing Spring's luxuriant sweets, To deck ungrateful Love; The rose or thorn my numbers crown'd, As Venus smil'd, or Venus frown d, But Love and Joy, and all their train are flown, And I will sing of thee alone; Unless perchance the attributes of grief. The eypress bud and willow leaf, Their pale funereal foliage blend with mine.

Hail, lovely blossom! thou can'st case The wretched victims of disease; Can'st close those weary eyes in gentle sleep, Which never open but to weep, For, oh! thy potent charm Can agonizing pain disarm; Expel imperious Memory from her seat, And bid the throbbing heart forget to beat. Soul soothing plant! that can such blessings give, By thee the mourner bears to live, By thee the wretched die!
Oh! ever friendly to despair,
Might Sorrow's pallid votary dare, Without a crime that remedy implore Which bids the spirit from its bondage fly, I'd court thy palliative aid no more!

No more t'd sue that thou should'st spread Thy spell around my aching head, But would conjure thee to impart Thy balsam for a broken heart; And by thy soft Lethean pow'r (Inestimable flow'r) Burst these terrestrial bonds, and other regions try.

> From the Practical American Gardener. [Published by Fielding Lucas, jun.]

# For the month of July.

| Concluded from page 119 ] Dionaa Muscipula.

The Dionaa muscipula, or Venus' fly trap, is one of the The Diona muscipula, or Venus fly trap, is one of the ly planted, duly shaded, and moderately watered, they most extraordinary productions in the vegetable world, will now take freely, in suitable earth, without the as-Each leaf is divided, as it were, into two joints, the sistance of a hot bed. Let the cuttings be taken from lower part flat, longish, two edged, and somewhat heart healthy plants, they should be from four to eight inches shaped; the upper joint consists of two lobes, each semi-in length, and strong shoots. The leaves should be oval, the margins furnished with stiff hairs, like the eye stripped off more than half way up, and the cuttings lashes, locking note each other, when the lobes close planted about two t irds of their length, in suitable like the eeth of a rat trap, to which the lobes, marginal learth, placing hand-glasses over them, also shade and hairs, and the manner of their closing, bear a particular water them. resemblance. The interior of the lobes is very irritable in warm weather, at which time, if an unfortunate fly happens to creep into it, the lobes immediately fold raised from the spring sowing, which are now three up and consincit; the greater the efforts made by the in inches high, or more, should be transplanted into small sect to disengage itself, the more it irritates the interior; pots separately, and immediately watered; they must parts, and consequently is the more firmly secured, be kept shaded, till well taken with the carth, and fully where it remains until it perishes. When the irrita- growing; after which screen them from the mid-day tion having ceased, the lobes open as before. The ob- sun for the remainder of the scason. server, by introducing a small feather between the lobes, will be amused by their closing upon it.

where it produces in July and August, bunches of band-rately in pots, and shaded for eight or ten days from some white flowers, on stems of from six to eight inches the mid-day sun; keep the earth in the puts moderately high. In the eastern and middle states, it will be best moist. to treat it as a hardy green-house plant, although it has stood the winter in the garden of the House of Employment of Philadelphia.

It is propagated both by seeds and off sets, which last are to be separated and planted in this month, in a

swampy soil, with a mixture of fine sand, to be well watered and shaded in the summer months. The seed to be sown on a hot bed early in the spring, and forwarded with care until the summer, when to be managed as before directed.

The Tutsan Leaved Dog's Bane.

The Apocynum Androsæmifolium, or tutsao leaved dog's bane, is interesting, not only on account of its beauty and fragrance, but also on account of the curious form of its flowers, and their singular property of eatching flies.

It is a hardy perennial, indigenous in several of the United States, flowering from the beginning of July to September. It is propagated by sowing the seeds in spring, which it produces abundantly in its native soil. or by parting its roots in March or October.

Auriculas and Polyanthuses. When any dead leaves appear on your auriculas and polyanthuses, let them be immediately picked off, and suffer no weeds to grow in the pots.

Preserve them carefully from the mid-day sun, which at this season would destroy them; keep the earth in

the pots always moderately moist

The auricula and polyanthus seedlings, that were sown last autumn, if they have grown well, and of sufficient size, should be planted into boxes or pots in the last week of this month. last week of this month, or the first in August, and placed in the shade, to grow till the middle of October, when they may be more exposed to the sun, and early in November, taken into their winter quarters.

General Observations Clean all the borders and flower beds from weeds and every thing which disfigures them.

Stake and tie up the flowering stems of such plants as stand in need of support, to prevent their being borne

down by winds, heavy rains, &c.

Cut down the stems of such fibrous rooted plants, as have finished their bloom, except where the seeds are wanted; all such ought to be removed as soon as possible, as their appearance is unpleasing. By this means, the plants, though past flowering, will appear more lively, and the bloom of the others will shew to greater advantage.

When there is an over proportion of young fruit set on the limbs of orange, lemon, citron, and shaddock trees, thin them to a reasonable number on each, in proportion to its strength; they may be divested of all flowers produced afterwards.

The earth in the tops of the tubs; should be taken out frequently, and particularly at the time of fruiting, for two or three inches deep, and replaced with fresh com-post, which would greatly encourage the growth both of the fruit and the trees.

Those plants which require larger pots, may now be shifted, agreeably to directions.

Propagate Plants. Continue to propagate the various kinds of green house plants, by cuttings, layers, suckers, &c. as direct-

ed in the preceding months, most kinds will still succeed, by cutting's of the present year's wood, if careful-

Transplanting Seedlings and Cuttings.

Such seedlings of green-house plants, as have been

Many of the cuttings planted in spring, will be well rooted by this time, and may now be taken up with as This plant is a native of South Carolina and Georgia, much earth as possible about their roots, planted sepa-

PRINTEO EVERY FRIDAY AT 48 PER ANN.

FOR JOHN S. SKINNER, EDITOR,

# AMERICAN FARMER.

# Rural Economy, internal improvements, news, prices current.

" O fortunatos nimium sua si bona norint " Agricolus." . . . . Virg.

Vol. I.

## BALITIMORE, FRIDAY, JULY 16, 1819.

Num. 16.

## AGRICULTURE.

## PRINCE GEORGE'S COUNTY.

Documents of the Agricultural Society, concluded from our last.

## ADDRESS OF THE VICE PRESIDENT.

"Hic labor, hoc opus."

SIR-Humbly qualified as I am, it is with no small diffidence I address the President of the Agricultural Society of Prince George's County; at a period so especially imposing. Splendid theory, is already the current coin of the day, and productive practice is becoming constantly more frequent wherever our art is cultivated with the care it merits .-I have, then, sir, no speculations to offer, by the interesting and ingenious originality of which I can hope to instruct, or even amuse. I have no practice to exhibit, by the magnificent productiveness of which, I can aspire to command rational admiration, or excite gaping wonder and astonishment.

Unlike Sir Humphrey, whom it is most fashionable now to quote on almost every occasion, I have no chemical doctrines in readiness to solve, to my own satisfaction, even the numerous and perplexing questions which beset us, at every turn we take in the practical walks of our most important, yet very difficult art. Unlike Mr. Gregg, of England, or our own De la Plane, of Maryland, the latter making a thousand bushels of grain, (including grain of all sorts,) per hand, I have no report of produce to set forth, which, by its smiling physiognomy, its alluring and prominent leatures, projecting in bold relief, can serve to cheer agricultural enterprize and industry, dispel the doubts of the sceptic, reanimate the hopes of the unsuccessful, and meet and satisfy the sanguine expectations of the bold, inexperienced, dashing projector.

Yet, Mr President, a sense of duty, arising from the relation in which I stand to this board, urges me to tender it, with due and timid respect, the humble results of my own limited experience, and of a still more limited range of observation. These results I do not presume to offer, as guides to the practice of others. Some of them may, however, subserve a sort of negative purpose. They may stand as beacons, to prevent the shipwreck of future adventurers, by pointing out the rocks on which my little bark has occasionally struck, in daring to navigate the dangerous sea of agricultural experiment. My own observations and experience, then, prefaced by a few remarks, which I deem it not improper to make, on what I conceive to be the true objects of this association, and on the spirit in which they should be pursued to their complete attainment, will constitute the pittance of contribunotice. In my h inble opinion, therefore, this association should consider itself the self appointed guardian of the infant agriculture of the county It

impaired by previous bad treatment, as most probably it may have been, should apply to its restoration those invigorating means, which affectionate the Prince Georgians contented with their rural zeal seldom fails to discover, and which, with equal economy, imperfect as it is, or do they mean to be certainty, will conduct her, in safety and with repu- supincly inactire, to depend on their ignorance being tation, to the period of sound, independent, adult enlightened from abroad, and thereby, at once, viomaturity, when, with grateful kindness, she will late every sacred duty of independence and magnot fail to dispense to society at large, the blessings nanimous patriotism? Is it that they claim a right which the first of arts never refuses to bestow on la- to act in the spirit of a maxim, often attributed to borious intelligent man. The small number of Mr Jesserson, but justly belonging to the French members belonging to this society, and the manner in which its meetings have been hitherto attended, give occasion to infer, that the agriculture of the own way. If so, let it be recollected, that this county needs no improvement, or, that the improvement needed, is not to be obtained from societies, ly, as it ever should be, to municipal regulations, to but from individuals, left "to manage their own affairs in their own way"-and the former inference attempted to be made applicable to the affectionis too obviously and grossly inconsistent with fact, ately parental admonitions of an association of into need serious refutation refutal, in numerous arguments, to be drawn from the history of agriculture, and from the more comprehensive history, still, of human nature itself.-The history of our art, if faithfully consulted, will fully shew, that wherever societies, for its improvement, have been established, provided they have been well conceived in their organization, duly executed, general improvements in rural economy, has been the necessary result. For instance, let us give the agriculture of Scotland, England, Switzerland, &c. in Europe. In the United States, that of Pennsylvania, New-York, Massachusetts, &c. and more recently, the improving agriculture of Virginia, and in some parts of this state, perhaps, under the fostering influence of recently established societies .-Whilst on this topick, let me not forget to remind the inhabitants of Prince George's, that their society, though a neglected child heretofore, has the right of primogeniture in its favour, which, though not legitimate in a political, is certainly honourable in an agricultural sense. The history of human nature shews, that man's noblest aspect is exhibited in his associated actions. It is, when his energies are combined, by one common feeling, in one common cause, that his greatest importance and dignity appear Ail this results from a constitutional implanted principle of his nature, enthusiastic zeal, which never fails to shew itself when men are as sociated by strong feeling, proceeding from a conviction of the importance of a joint cause, tending to common bencht This principle needs only to be enlightened, ever to conduct to valuable results. It is the constitutional object, therefore, I humbly conceive, of this board, to excite, first, the laudable zeal in question, and then enlighten it, by every means within their reach. These means are either external, o internal, to be found among others, or tion I have to offer, at this time, to its indulgent among ourselves. Wherever they are to be found, it is the hounden duty of this association to find them, then to make them public property, by the publicity it has the power to give. Our hoard, then, to purshould feel towards its ward, all the kind affections sue its node purposes, in their true spirit, should the community itself, to a considerable extent, have of the tenderest parent; should study her very con- diffigently cultivate both, but more especially the lat- been protected against the injurious consequence,

stitution, and if it be formed delicate, or a little | ter. It should rouse the internal resources of the county, by exciting a disposition to observe, and experiment in every nook and corner of it. Are economists before his time, namely, that every person should be left to pursue his own business, in his maxim, is no doubt, a sound one, when applied onprovisions of positive law; but wholly false when The latter will meet its dependent individuals, combining their knowledge, their zeal, their benevolence, in a common enterprize, and that enterprize the most interesting to humanity, owing to its having for its object, the improvement of an art, vitally essential to its best in-

> These arguments, drawn from moral duty and rational prudence, it is hoped, will not be deemed deficient in strength, especially when aided by the more useful consideration, that to devise the means of improving poor land, would operate powerfully as a cause to prevent emigration, and thereby increase the value of land in general, by keeping up an effectual demand for it; if however, they are not yet strong enough for their purpose, what can be said in answer to the following drawn from a religious source. The God of nature has blessed the inhabitants of this county, generally speaking, with a soil originally fertile, and therefore, though much reduced at present, readily improveable by the practice of proper means. Would not, then, the diligent pursuit of such means be an expression, at once, of a sense of gratitude to their God, and of duty to themselves.

> In drawing the distinction between municipal regulation, and the admonitions of a society of independent members, free with the rest of their fellow citizens to embrace or regret similar admonitions, by the exercise of the right of private judgment, I omitted to enforce as I should have done, the difference in principle by some practical illustration Suppose, in the recent high prices that have been given for land and negroes, in consequence of the extraordinary high prices of produce, and of tobacco in particular, agaio; in the change of grass to arable land, for the purpose of cultivating that plant, an agricultural soc cty, respectable for its intelligence and benevolent zeal, had interposed its advice, as such a one night to have done, that advice founded too on the solid basis of past experience in similar cases, and on the soundest and most perspienous principles of political economy, might not many individuals, nay,

necessarily injurious.

Skilful, prudent, wise agriculture, then, to arrive at the highest grade of profit and dignity, should be a steady, consistent principle, not subject to the catake place in what is emphatically called fashion .-

should, expect to light up theirs.

ral affairs of the county.

I am warranted, by my standard, to advance an o-made, with the same result possibly in this case; and Ruta Basa would be amply sufficient. The

of such speculations and of such practice. In such principal, in which it may be, few will join me. It is according to the very terms of the proposition. a case, the inflexible control of positive law, would that this blue grass, on whose devoted head innu-plaster could not have any effect. It must, then baye been tyrannical, and like all other tyrannics, incrable curses and execrations have been heaped by result, if there be any difference, from the meungrateful man, is destined, at least in this part of chanical mixture of the elementary earths, being the world, to be one of his principle instruments of different in the two spots, or from some other improvement. To give it the requisite opportunity of cause. There is no manner of doubt, that this effecting this important purpose, the rotation of difference in mechanical mixture, though not prices and whims of sudden changes, like such as crops should be as follows:-Corn, wheat, rye, or completely described: a priori by the eye, or loats, succeeded by clover, which is to waste into any other sense, may make a very great differ-A man may capriciously change his dress and his blue grass, two or three years, exclusive of the stub- ence in the clover produce of two different piefurniture, with comparative impunity, because, the ble year. If one had shifts enough, three years ces of land. Whenever this difference does exchanges are not so momentous in their consequen-would, probably, he the best interval between grain ist in favour of a clover capacity, deep ploughces, and may be more readily remedied, being an crops. I deem myself warranted, by my standard, ing alone, especially if in conjunction with a litaffair of present pecuniary loss me cly. But, when in saying, that the more blue grass land is stocked, the manure, will make a most astonishing imthe routine of a farm is changed, and a concurrence when somewhat previously improved, the more that provement of the clover crop, as I have often of adverse circumstances make the change an un-improvement progresses, and the more excellent the known to be the case. In such a case, if plaster propitious one, its consequences are, from their na pasture becomes It is the latest, the earliest and had been used by one of its admirers, most of the ture, permanently felt, and the remedy is, neces- the best I have ; it is not inconsistent with the growth improvement, if not the whole, would probably sarily distant. This is more particularly the case, of some timothy, snd a good deal of white clover, have been ascribed to it. In the month of Feperhaps, when the culture of the necessaries and during a part of the summer. It is agreable to conveniences of life are changed for products that my standard, to say, that wheat is the most difficult the acre) plaster, to a tobacco bed, previously only subserve the purposes of mere luxury. I omit- of all crops to make. It must be, indeed, in clean, manured by the deposits of horn cattle and sheen, ted to make one somewhat important remark, per-manured land, if any certainty, or any considerable hall of the bed not plastered. The plastered haps, when on the topic of the spurit in which this amount of crop is expected; it must be seeded by part is not night as good as the other, it being association should pursue its objects. It should do the last of September, or the first week in October. every thing in its power, to encourage communica I have often known a few days make the difference ture. I have plastered some corn land, highly tions from individuals, distinguished, as good many between a good and bad crop, more particularly if the manured with long manure, and some adjoining gers in the general, an or ject, certainly more wor land is not manured. In manured ground, later thy of its notice, than particular success, in a par- wheat will, in some instances, look very well; but both, with the plaster on its surface deeply ticular crop, occasionally. Such communications, it will not be as well filled as forward. It is conticular crop, occasionally. Such communications, it will not be as well filled as forward. It is con-should be solicited, on any terms, as to mode, formable to said standard, to say, that plaster has no mer, all the experiments I shall probably ever whether made by the person himself, or by another manner of effect, in any of its usual quantities, on faithfully, for him, in writing, or verbally, as may my tarm, nor on an adjoining one belonging to my make with this, in my estimation, founded on nubest suit the convenience of him, who confers the brother, nor do I beleive it has the effect that is uncrous, and valued experiments, a perfectly inobligation, by communicating desirable information. frequently ascribed to it, on many others. It should to still the still th In oral communications, something like a process on this subject, never be forgotten, that error may it is supposed skeptick principle. In oral communications, something like a process on this subject, never be longoiten, to at error may be so associated with truth, as that man shall scarce-say, might be officially taken by the secretary. When matters of importance are thus collected, they be able to make the separation; hence the value of the speedily made public, at the expense of rious superstitions that have existed in the world, some of which, perhaps, will ever continue to exist, in eccessary, according to constitutions some of which, perhaps, will ever continue to exist, and ploughted as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land, and as deepended as soon as possible into the land. al provisisions. In a word, all the officers of this insupported by the truth, with which they have been by as possible—all the manure, within one's stitution, should be scrupulously exact, and most constantly conjoined. Let us, for a moment, here, hower, being raised. I am warranted by said punctilious in the performance of every duty. Their examine this principle, as it applies to plaster. Deep lamp of zeal should burn with a pure and constant and good ploughing, one of the most unequivocal among the best furners and planters, practically flame, as it is there, that others will, and perhaps modes of improvement, in almost every soil, is now among the best farmers and planters, practically I have made the foregoing observations, with due cy, an almost constant adjunct. Manure, the most and in due numbers and variety; who uses those deference and respect, and in the earnest endeavor certain mode of improvement, is frequently, now, well and in time, and seeds in time, and plants to remove some prejudices, which I suspect exist, an adjunct. I shall notice, on this topick, an oction of the control of the co relative to the association, and which are founded casional combination, of a natural kind, partly which in time. I have seen some where, a theory of in false notions, as regards its objects, and its ca- I do not recollect ever to have seen adverted to agriculture set forth in the following simplipacities to be useful. If these prejudices were re- It must be obvious to every accurate observer, that city: moved, I doubt not, but that the respectability of by the mere mechanical mixture of the primary this board growing out of a sense of its usefulness, earths, particularly where fine soft clay predomi- destroy weeds." A little reflection will instantly would be gratefully felt, and as gratefully acknowl- nates with more or less gravel or stone, there is a hew the comprehensive import of those two acedged by all intelligent persons, engaged in the ru-clover capacity given to land. This clover capa-tions, and that very probably most of the circumcity, if I may be allowed the expression, may ex-stances of good farming enumerated above, are I am now arrived at the practical detail of this ist and not exist in spots not many yards apart. coolvable into them. It accords with my standaddress. Having established, in a former part of Suppose an experiment is made with plaster A por- and, to say, that all the animals which it is pruit, my own observation and experience, as the stan-tion is applied on a spot having this capacity, which dent to keep on a farm, should be well fed, pardard to which I should refer particulars, in this is to be compared with a neighbouring spot not poss- ricularly in the tenderness of infancy, which will stage of my communication, I am free to state as essed of it, on which no plaster is applied, the re- nake them larger and healthier, and somewhat follows:-- That I have completely abandened, never sult will be as might have been predicted, a great less fined will be necessary afterwards to make to be resumed again, I expect, the fallow system |difference; yet the difference is not attributable | reem look well. It accords with said standard, For several years my wheat crop has been diminish-wholly to the plaster, bence it is impossible to say, to say, that oxen are very valuable on a farm ing, as well as that of rye, in comparison with what how much of the effect is to be ascribed to that for deep ploughing, heavy draft on level ground, I used to make after Indian corn. The same effect cause, and how much is not; in a word, it is diffi and a short distance; that they are much cheaphas taken place as to clover, and even outs, in land cult, perhaps impossible, to say whether any of it for in their load than horses. I have had them of the same, or rather improved quality. In many be thus ascribable. On some soils, the greatest arought every day, in winter, Sundays except-

ornary, I applied (at the rate of two bushels to a little dryer, and the season delicient in moisland, manured in the same way, (the manner in ploughed in) is left unplastered, to compare the testing of its supposed skeptick principle. power, being raised. I am warranted by said speaking, who keeps the best teams and feeds with those that use plaster, and believe in its effica well; keeps the best instruments of all sorts,

"It is to dispose of redundant water, and to parts of my fallow fields, the wheat and clover have believers in plaster agree, that it is wholly mert— d, at hard work too, with little more to an oatbeen destroyed by the blue grass. Here, I think, here the same apermient, as above, mig to craw, which is an excellent food for them—that

same authority bids me say, that pumpkins and turnips, in both of which, I have had much experience, are articles of food, not sufficient of themselvess to feed stock; but, that they greatly cheapen other sorts of feed, by lessening the requisite quantity, more especially when there is a convenience of boiling them. In the use of that turnips are the most exhausting crop I these substances, there is this consideration to be taken into view, they are destined by nature to have the happiness to state to your wearied pahave not only the effect of food, but that of medicine-otherwise I believe they would be nutricions enough of themselves; but their purgative or laxitive effect, passes them off too soon. An excellent medicinal use may be made of turnips, by giving them to horn cattle, kept up | bor, hoc opus." WM. A. DAINGERFIELD. in winter to wheat straw, &c. they become very costive, and a feed of turnips, two or three times a week, would counteract that effect, which is very injurious to their health .- Those two articles of food aid very much in converting straw and corn stocks into manure—green clover in From T. S. Lee, Esq. on the culture of Indian summer contributes very much to that effect. I am sanctioned by the same authority to say, that the principles of the farmer, and his instruments too, may be applied to the successful formation of tobacco beds-namely the plough, harrow, and roller. I have a piece of ground consisting of about three quarters of an acre or more, in the estimation of judges, some parts of which had been some years ago, in tobacco beds: rogations. I will comply with this, and your request, other parts were in trees of some use, grubs and as well as desultory training enables me. A few ideas which had been some years ago, in tobacco beds: many turnips throughout the whole. I penned, at night, about fifty horn cattle and two hundred at night, about fifty horn cattle and two hundred thereing the base of of the same and throughout November—and vegetable manures, in sufficient quantity. From they manured it very highly. In the winter I took up the trees by the roots, all the stumps and grubs, and with a two horse plough, turned in the manure about two inches deep. In February burnt it, harrowed out all the small roots, seeded, raked, and rolled one half of it; the other was seeded the first of April. The part first seeded, is an excellent bed, as good as any I have seen, the other is promising as a later bed. The predictions that the plough would be injurious, that grass seeds would destroy it, &c. &c. have all proven false When the plants are taken the ridges and close the seams of the furrows for the out, I shall seed it down in oats, and plough them in, and reseed from time to time, to destroy weeds that may come up, and fertilize, at the same time. In September, I mean to seed it down thickly in oats and rye, to be pastured from heavy, and from fruitfol ears, place the grain with reg-time to time by sheen; the oats will perish as the ularity in the check. Now if the earth be friable, introsevere frosts come on, and the rye will serve for some ewes and lambs, throughout the winter, in open weather, until about the middle of Febru ary; when after a very free application of ashes, I shall use the plough, harrow in the seed with a light harrow, followed by the roller as before, and repeat the same course, except manuring by stock from year to year, with scarcely any trouble.-- My standard sanctions me in saying, that sheep on dry sandy ground, in winter, provided they have a dry field to run on in the day, will manure a considerable quantity of ground for tobacco, by moving their pens, from time to time, ta king care to have a permanent shelter, to which they may be removed in stress of weather That stock hogs may be confined in winter, with a little expense, provided they he kept dry and warm, as if let to run out, this too without the risque of earth from the hills, but to raise and let it fall perpen-

with long litter, will make a great deal of manurc. It is consistent to say, that I have since the winter applied manure, made from offal, as above stated, on different parts of the farm, amply sufficient for thirty acres I can also say, know. It is farther consistent to say, which I tience, is my last act of consistency, that a large form, complicated in its products, requires unremitting labour, timely and severe attentions; that the cultivator, to succeed, must regulate his every action, in the spirit of my motto, " hic la-

N. B. It is not intended to deny the efficacy of plaster on some lands, but to deny its efficacy, as relates to my own observation and experience, and to express general doubts.

NEEDWOOD, M'ECH 9, 1819.

Dear Sir—Your favour of the 5th Dec. came duly to hand, and it should have been replied to much earlier, but a long confinement by the gout, prevented my at-tending to business of any kind, and the delay was increased by the carelessness of my servant mislaying the letters; they are now before me I wish it was in my power to give satisfactory answers, to Mr. picked up here and there, induced me to conduct my farming business as follows: The basis, deep ploughnecessity, t commenced with long, or half rotted manure, and fortunately it proved by experience, the best way of applying it. Carry 20 cart loads to the field for each acre, spread and plough it in under a deep furrow without loss of time, the seams of the furrow to be closed. to prevent the atmosphere exhaling it, and interrupting the fermentation; no danger of its sinking even in a sandy soil, because both animal and vegetable manure rise to the atmosphere My course is, to take four crops in succession, from the same field, viz. 4st Corn, 2d Wheat, 3d and 4th years Clover. Commencing with curn-let the field be in good heart, manure as above mentioned, spread and ploughed under a deep furrow as speedily as circumstances will permit; harrow down reasons before assigned. In due time, cross plough, then cross again with a heavy harrow; lay your rows out in straight lines; this operation to be well performed and may be best done with the plough, the distance from 3 to 4 feet each way; let the seed be good, sound and duce the shovel plough, an excellent tool, if skilfully used, the light harrow crossing the ploughing: a smart hand with a light hand-rake with three (eath, may uncover the corn and open the crust occasioned by dashing rains and the heat of the suo, both harrow and plough to run so near the corn, as to remove the greatest part of the hill, which may be again restored by the same operation, the plant must be brinly set, before this is attempted. If the field be infected by we do or grass, then again earry in the small harrow; the plough removes them; and by breaking the earth from the Previous to sowing roots completes their destruction wheat, the small harrow should leave the surface level, that the grain may be strewed with regularity. Unmix ed wheat, entirely cleansed from filth, sound and heavy rolled in plaster, and sow seven peeks to the acre. Be fore seeding, take out the tops, and have the blades taken off, plough in the seed, not exceeding three inches deep with the shovel plough, the small harrow to cross the work of the plough, that the place called the step may be reveled, and the seed thereon covered, the hoe

their being stolen; and, if they be well supplied | dicularly, all clods to be pulverized; lastly divide the fields in lands, three corn rows in width, and lay them off to suit the situation of the field, so as to guard against washing into gullies, so that draining furrows may be useful; as soon as the corn can be gathered with safety, ent the stalks near the ground, and earry thou to the place designed for sheltering your stock; they will then be heavy and contain saccharine juices; the eattle and hogs eat them with avidity; after they are picked apply a part to eover shelters, and what remains will answer the double purpose of defending the stock from the cold, wet earth, and of augmenting your stock of manure. Early in March, sow one gallon of clover seed, mixed with a bushel of plaster, to the acre. By adhering strictly to this method, a good crop of corn may be reasonably expected, and a crop of wheat of good quality, and in quantity but little inferior to the produce of a fallowed field. Clover rises with vigour after corn. Give to the clover a bushel of plaster to the acre, early in the spring of the third and fourth years; the operation of the harrow leaves the surface level for mowing and cradling; the third y ar will afford a good crop of hay, and afterwards seed, or it may be grazed; the 4th year, the clover may be grazed. By this course, as much benefit will be from the increased fertility of your soil, as from the crops. In this routine, the Indian corn is rather a protecting, than an exhausting crop, from the partial covering it affords the bosom of the earth, at the season when the sun has most power, at the same time letting in sun and air sufficient to promote the growth of the crop. Manure cannot be bad from the farm in the commencement, but with due care and perseverance, supplies may be had without foreign assistance; and when that is effected, the quantity may be increased almost to any extent. Besides the leavings of straw of all kinds, corn stalks and fodder, all weeds before seeding, draw leaves from the woods to litter your hogs, mix them with straw for sheep, cows and horses; the droppings from the horses and cattle to be collected from the roads and lanes on the farm by the negro children. If there be marshes at hand, cut any coarse grass and haul up to be added to the manure Ashes, lye, and even soap suds may be made useful on the occasion.

MR. HEBB'S REPORT.

остовек 18, 1318.

Sir-Since the last meeting of this society, I have bad an opportunity of complying in part with a resolution, passed at the last meeting, appointing Mr J Law and myself a committee to report the amount of produce exported from this county, in each year. The only article, that I have been able to ascertain with certainty, is the crop of Tobacco of 1816, which according to the returns made by the inspectors, amounted to 4460 hhds. inspected in the year 1817, as the product of the preceding year, to which may be added, 200hhds. shipped out of the county without leing inspected; to this quantity, may be fairly added, one fourth, as the increased product of the last year, equal at the present averaged price, to \$873,000; a sum perhaps not equalled by any county in the state of Maryland. In the cultivation of this plant, great improvement has been made of late. It is now generally admitted to be as innocent in its effects on land, as almost every other plant, and is no longer ranked among the exhausting crops. Most of its friends are of opinion, that land will produce a crop every third year, by returning to it a crop of clover, with the use of one bushel of plaster paris, in each of the intervening years, and some gentlemen have informed me, that on a soil adapted to it, they have made very profitable crops, of a hhd per acre from worn out commons, by a single plastering, at that rate in autumo, when all the vegetable matter it afforded, was turned in, so that by an improving rotation a whole estate may be converted into fields, for its cultivation, proportioned to the force to be

applied. I have had no data, by which I could form for catterpillar, having fed upon the young coro, de-fearth the habitat, in which it is brought to maturity an estimate of the other exportable productions of the county, and am, sir, your obedient servant, WILLIAM HEBB.

Mr. J. LAW,

may be accomplished.

President the Agricultural Society P. G. County.

## ENTOMOLOGY.

at Annapolis.

Cambridge, Md March 20, 1819.

the opinion, that no branch of science, perhaps, The numerous class of insects that blast the most most wholly exempt from their annoyance. flattering prospects, are suffered yearly to repeat their ravages, without a serious effort to obviate the are nearly one hundred species, belonging also to evil, and the vast varieties, so useful, are suffered the colcopterous order, commands, from its univerto perish, from the want of knowledge to preserve sal ravages npon both the farmer and the fruiterer, them. To learn the natural history; to enquire in the attention of every member of the community, into the habitudes of life; the characters, changes, who has it in his power to contribute, in the smalland metamorphoses, of beings so important, are oh- est measure, to the destruction of this ruthless foe jects not so frivolous as they may appear to the os- to the wealth and luxury of man; which frustrates, tentatious, but superficial observer; it is the only by its concealed and wily movements, the most ramode rational or practicable, whereby the propa- tional and well founded plans, executed by the most

ments in Entomology; and one of the first objects !c colimus inviti quoque." How repugnant to that attracted my attention, was the worm that in- the proud feelings of man, to stoop to combat with habits the corn, usually called the grub-worm. I this insignificant animalcule? How resistless are had seen a paper on this subject, by RICHARD Pe- the ordinances of nature, which compel us, by acts TERS, Esq. in which he represents its parent state so humiliating, to admire and adore that complex to be the "scarabœus volrens" This fact I creation, whereby the great Architect has seen fit doubted, as Mr. Peters had not himself witnessed to enforce them ! the experiment reported by him though he believserved. To come at the fact, I carried into the innate propensities might incline them. field a large transparent bottle, which I half filled In a transparent bottle containing some earth, with earth; upon this earth I deposited about a I deposited several cherries, in which were the of the impossibility of mistake or deception. These tions and experiments to test their correctness: destructive animals belong to the order " coleoptedestructive animals belong to the order "coleopte-ra" of LINNEUS, having crustaceous elytra, or physically, to wit: To interrupt the metamorphowing cases, which shut together, and form a longi- ses, by preventing the descent of the larvæ into the tudinal suture down the back; they are about one earth, to expose to the weather, the pupa, after its quarter of an inch in length, of a shining jet black descent; or to intercept in its ascent of the body of color, very quick and active in their movements. [the tree, the parent insect; or, chemically; by and are seen in vast numbers under wheat stack. substances, known to be generally deleterious to and in wheat yards

The brief history of this insect is, that its larva,

which in autumn, deposits its ora in the helds, to feeted by the heat of the ensuing season.

The obvious preventive, is fall or winter ploughthe frost the ora whereby they must perish.

To prove the efficacy of this method, in Dec ' Hoc opus, hoc studium, parvi propercous et ampti." [1816, a field which I designed for corn, was DEAR SIR ... I have long been impressed with ploughed four or five, inches deep; the following season, my neighbours' corn fields, as well as those more deeply interests the practical farmer, than of the county generally, were assailed and nearly Entomology, and none is generally less regarded. ruined by this destructive worm, when mine was al-

Another insect, the "curculio," of which there gation of the one, and the destruction of the other, ardent and efficient energies of the human mind and body. Are we not inclined to exclaim, with the With these views, I have made repeated experi-moral and ephilisophical Seneca, "Natura quam

I have made experiments on the larra of severed the fact, and proposed a remedy founded upon al species of curculiones, and have found the parit: I doubted it because I had seen the scaraborus ents so nearly similar in habitat, metamorphoses, volvens, in so small a state, as to be almost invisi-ble to the naked eye; upon which the reasoning oc- will suffice for their whole history; at least of those curred, that the product of a chrysalis so large, as which I have examined; and the only mark of idimust necessarily be that of a grub-worm, could not, ocrasy in the tribes which I have observed, consists by analogical inference, be as diminutive as the in their choice of a nidus; selecting, from their pescarabœus volvens is frequently seen and known to culiarities in this respect alone, the cherry, the he, and consequently, that Judge Peters was de-plum, or the grain of corn, as their instinctive or

dozen of the worms, which were then devouring the larvæ of the curculio, that infests that fruit; in a corn, and gave them corn blades to feed upon In few weeks, or rather as soon as the pulp of the fruit a few weeks, or less perhaps, they disappeared; I was consumed, which was at different periods, they searched the earth, and found them chrysalids, en retreated into the earth, where upon examination veloped in balls of earth. A considerable time af- some time after I found they had assummed the state ter, I again examined them, and found several of of chrysalis, which shortly resulted in that of the them matured, and extricated from their envelope; limago or parent; the wings of the insect were not others, a soft and white pupa, with limbs more or less sufficient to accomplish a flight, but merely to asdistinctly formed, in various states of progression, sist its ascent of the body of a tree; from which and exhibiting unequivocal proof of their origin, and circumstances, I was led to the following reflec-

hat class of animals.

The fruit being the nidus of the ovum, and the

scends into the earth about the depth of four inches, and makes its abode, and the larva, from its soft where it assumes its state of chrysalis, in which it and delicate structure, incapable of travelling, or continues until the first of July, when it be- sustaining exposure; when the fruit containing the comes metamorphosed into the imago, or parent, larva has fallen and is rotted and consumed by the insect, the larra must descend, by the most direct route undergo a similar series of transitions, which is ef- from its original depository, the fruit, into the earth, its permanent abode, there to undergo the metamorphoses, which will bring it to maturity, and fit it for Dr. Jos. E. Muse to the Agricultural Society ing, at such a depth as will turn up and expose to a new series of depredations, which is so secretly performed, that though myriads are employed, they are never detected in executing their work of ucstruction, the deposit of their ora. Hence I concluded, that one of the most effectual preventives. would be paving with brick, stone, shells, or some other hard substance, impervious to the soft larva, a circular space round the fruit tree, as extensive as the fall of the fruit by which it would be interrunted in its descent into the earth, and consequently perish; or that it might be accomplished, by turning up the earth under the tree to the same extent, and thereby exposing to the inclemency of the weather. the tender pupa, of which two methods, the former is to be preferred; because thereby you arrest the passage of the larva to maturity, and necessarily destroy it. The latter method, if not performed in time, may allow the perfection of the imago, and in this state it is unquestionably more hardy and capable of providing another habitation, as secure and comfurtable as that of its first election. And by the experiments which I have made its descent and maturity are at uncertain and unequal periods, which would make an insuperable difficulty, in point of time, for performing the operation; if before the descent, it would necessarily be useless; if after the maturity, equally so, for reasons given.

This view of the subject, has led me, repeatedly, to both experiments, which I have fairly and impartially made without the influence of any prejudice, which it might be presumed, my reasoning had connected with, or in favour of the former; the result was, the fruit with which I made the experiment that had been destroyed by curculiones, for many years, were in all cases, when I paved or shelled, entirely exempt; in two cases only, when the earth under the tree was turned up, at different seasons, the fruit escaped injury, but from the number that failed, I was inclined to ascribe these two to causes accidental and extripsic.

The third method proposed, viz: to intercept the parent in its ascent of the body of the tree, by various obstacles which the mind will readily suggest, and thereby prevent its deposit of ora, though I have made no experiments upon it, I conceive to be rational, and easily accomplished and with those species of curculiones, of which there are many, whose wings do not admit of flight, but assist them only in climbing, it would undoubtedly be effectual.

The fourth remedy which I propose, of a chemical nature, I have made but partial experiments to establish, such as are not yet satisfactory or conclusive; when finished, it will give me pleasure to report them, if the result be successful, by a fair and candid detail of facts.

I fear, I have already trespassed on your patience, and will venture merely to notice the parent of a singular larvæ, which some years ago, very generally, throughout the state, as you no doubt remember, threatened to exterminate the whole vegetable creation, as far as it ravelled; in whole discricts, not a solitary blade of wheat, oats, or if by a scorching fire: so formidable were the destructive multitudes, that fossis, abbatis, and parapets were constructed, to repel their advances, and the ditches were filled with their dead bodies. I denosited in bottles, with earth, several of these larvæ, they shortly went into chrysalis, and came out a fly of the lepidopterous order, precisely like alarm as they occasioned, I have never seen a notice of a similar experiment; and it may, in case of a return of these hosts of enemies, afford a clew to their destruction. We at least, are not averse to know, something of an enemy, which has, and may again assail us with more disastrous ravages.

If, sir, the present communication shall have the effect of inciting to enquiry, on these interesting subjects, the enterprising and intelligent farmer; if the plan of research which I have ventured to suggest, shall afford him any assistance; if I have ad my purpose is answered, and my most sanguine ex-

pectations fulfilled.

Thave the honor to be, sir, your abedient servant,

JOS. E. MUSE. To the Pres't of the Agricultural Soc. at Annapolis.

Maryland and Pennsylvania Farming, compared [No. 1.

For the American Farmen.

To cultivate land to advantage, and at the same time to ble, is certainly an object of the first magnitude to a farmer: hence many people suppose, that as it is the inin this honorable and lucrative pursuit; whereas, but convince them that the reverse of that supposition is the twenty miles of so good a market as Haltimore, are in a future number. but indifferent order, and very carelessly, nay wretchedly cultivated, which deteriorates the soil, and the worse the soil gets, the more it, and the improvements are neglected, until they are in ruins, and valuable farms become a burden to their proprietors, which has lottery. For example, we find that lands naturally no controlable Providence these remarks ladged lately with a farmer of the socie- Young FARMERS " ty of friends, from York County, Pennsylvania, who lias bought a large farm ten miles from Baltimore; he inacre and bought where he now lives for \$20. I conquired by the annexed engraving. of him what he consid red to be the difference in natural fertility between the lands in the vicinity of Balti-more and York, and particularly as it regarded the farm he sold and the farm he bought. He inswered meby observing, that on that subject he had the vanity to think he had some judgment, as farming had been his only employment through the course of a long life; and having lived long enough on his present residence to form an opinion, the result of his experience, on his judgment was, that the lands in the neighbourhood of Baltimore, wire naturally as good, and that they were much easier improved and fertilized than the lands in York; and as it regarded the farm he sold and the farm he bought, he gave a d cided preference to the a little information, which, I hope, will not be unacclatter. - In the first pla e he thought the soil as good, as t ble to the n. that he had sold, and much e sier improved, and succe

tite, and the grass was swept, in its march, as the flat lands in York; he further observed that when he farmed in York, he sold his surplus produce in Balti- our knowledge respecting them, except the one communore, after hauling it over an expensive road of sixty nicated by General Cocke, respecting the manner in siles, but now he was situated within ten nines of the which they deposit their eggs on the blades, and demarket's mouth, ready to take at a high price, every seend into the sheaths of the wheat; a fact for which thing he had to spare, and to supply his wants with less labour and inconvenience than he could in York. He proceed in tracing their natural history, by a careful also informed me, that he bought the farm he now lives on of a gentleman in Baltimore, who had been farming it with an overseer and about twenty negroes, and that the candle dy, in all respects. This result, I re-the proprietor was constantly at the expence of all port, because numerous as they were, and as much kind of agricultural instruments, cloathing for his negroes, and many other expences, among which no loubt was the wages of the overseer, taxes, plaster, clover seed, and frequently a horse or two from natural history, the next object that presents itself is, to the Baltimore market; but what is still worse, had to ourchase food for his servants in the Baltimore marset, nearly half the year. And when the York farmer and his wife went to Baltimore to get a title to their farm, after the title ceremony was over, the wife of the Baltimore gentleman observed, in the language and manner of sincere charity, being in wealthy circumstances & of liberal disposition, that she was afraid that they, (the Quakers) would suffer on that poor farm, deep sowing-a remedy which I have often seen totally (knowing what disbursements her husband had to destructive of the crop, the seed having rotted in the ded one ray of light, whereby more may be obtained, make for the support of it) and entreated them if such ground. was likely to be the case, to let her know it, and she would certainly administer to their distresses. Suitable wheat from the grain, till it branches considerably. I thanks were returned for her kind offers, but it alarmed have enclosed a delineation with its explanation, on the Quaker and caused him to keep correct accounts, which it is necessary to make some remarks, viz.; If a to see how he was a going on, and the result was, that grain of wheat is placed six inches beneath the surface, the first year, (which is always the worst with a farmer, it will vegetate and throw out two leaves, which are genhaving every thing to begin and arrange for fitture operally called seminal leaves, and corresponding roots, crations) he spaced of produce, which he did not want, (see the delineation, A, cc, and dd,) then a thread is clear of all his expenses, between four and five hundred thrown out, which, as soon as it reaches near enough to dollars worth, and every year since considerably more, the surface so as to come in contact with atmospheric and this too without any advantage (or perhaps more air, it there forms a knob or enlarged point, which is properly disadvantage) of slave labour. What a contrast! the part from whence a new set of branches and roots improve the soil, and thereby render estates more valua. The Marylander running his lands and impairing his for- are thrown out, which, in the autumn is about an inch tune to maintain slaves, and that too, perhaps, against and an half or two inches beneath the surface, (as in the their consent. The Pennsylvanian comes, and without delineation marked D.) After this period, the seminal terest of farmers to do so, that they are all employed slaves, makes a fortune, on the sa e place, and at the leaves, roots, and the thread denominated caudex, dies same business that a Marylander spent one. Fearing and becomes useless to the plant; above which it has little observation and experience would be sufficient, to that I shall trespass too much upon the limits of your a new set of roots, branches, &c. On examining many useful paper, to the exclusion of more important mat-roots of wheat, some had a knob between the seminal fact; that the largest half of the lands, even within ter, I shall reserve the conclusion of these remarks for and coronal roots, &c. appearing to be an effort of na-A YOUNG FARMER. Hartford County, May 26th, 1819.

## SOWING SMALL GRAIN.

grain. This crop admits of but little cultiva- and two inches below, there will be only one set of given a character to the Maryland lands, that they do not deserve, (and in consequence of which,) it is almost discovered the farmer, almost every thing in their different directions from the seed. I have said as difficult to sell a farm in the neighbourhood of Balti- depends on his manner of preparing his ground and the stem or thread arises from the seminal roots to withmore, for half its value, as it is to draw a prize in the sowing the seed-the rest must be left to an un-in two inches of the surface, in the autumn; but this better, in York and Lancaster Counties in Pennsylvania, therefore, to insert an article from the Memoirs of sell for five or six times the price that ours do, and not withstanding they sell so much higher, they are much opinion, is conclusive as to the expediency of shall read than ours, and all yeard their produce in opinion, is conclusive as to the expediency of shall reverse the access of atmospheric air, so will the same market, which circumstance alone is sufficient low seeding, which our readers will recollect is also it be found nearer the surface; so that in the spring of to show that something must be wrong. The writer of recommended in Judge Peter's "Notices to the year, if any branching takes place at a late period,

The observations of Mr. Merriwether are forms him that he sold his land in York for \$100 per clearly explained, and his arguments well supported two inches below the surface, that it has an extraordi-

To Dr. John Adams,

AMELIA, May 31, 1818

DEAR STR-You will pardon the liberty I have taken Society, through you, of which respectable body I have not the honor of being a member; but believing that they will accept the intentions of one whose object is the promotion of the general welfare, though not nocthe rown body, I have undertaken to communicate

The Issuan FLY proving extremely destruct ve to cropping land for wheat and clover, as they did not the crops of wheat in Virginia last spring and summer, rejound less than within two inches of the surface, the

rye, nor a remnant escaped its voracious appe- spew out with frosts in winter so much as they did in and much having been written in the public papers of that subject, without adding one solitary useful fact to we ought to be much obliged to him, and hope he will and minute attention to their progress through their different stages; till that is done, I am inclined to beheve, that we shall not receive any really useful knowledge respecting the best means of counteracting or lestroving their permicious effects, though aided by the most splendid hypothetical speculations that human geaius can invent. After having minutely traced their ascer sin the nature and manner of the growth of the vegetable of which we propose to counteract or prevent their injurious effects, viz. wheat. This becomes the more necessary, as there have been plans proposed of more injurious consequences, as I believe, than the Fly itself; particularly one published some time ago in the Richmond Enquirer, by a person signing himself "A King William Farmer," who recommends early and

In order to elucidate the manner of the growing of ture which proved abortive, being not near enough to the surface to obtain air. If the seed is placed any where he tween six inches and two from the surface, there will be a set of coronal and seminal roots and branches; but The season approaches for preparing to sow small if the seed is placed any where between the surface, We take this occasion depends on the dryness and porosity of the soil at the it will be found to be entirely on the surface

From the above statement of facts I draw this inference; that if a grain of wheat is deposited upwards of nary effort of nature to make, to come up to that point beneath the surface where it has access to atmospheric From the Memoirs of the "Society of Virginia, for pro-moting Agriculture" for pro-quality of the soil, moisture, &c. which must occupy a proportionable length of time and consequently is Secretary of the Agricultural Society of Virginia, equal to having been sown so much later, if put its proper depth; and this I take to be the secret of the King Wilham Farmer's deep and early seeding, as he particuin addressing you, or rather, the Richmon I. Agricultural larly mentions a mother root, which I take to be the seminal root, (as at A in the delineation :) which is an evidence of the grain being deposited deeper than naare lotended it should, for it is not to be found in wheat ciless deposited upwards of two inches beneath the irf ce. He having mentioned the mother root, ought have told us so newhat about where the daughters very to be found: for it is upon them that the Hessian "/ commits its ravages, and I finey they will always

also, that all the seminal leaves were dead, a pretty

good proof that the roots were so also.

The next inference I make is, that the branching of wheat being within that distance, to which the Hessian Fly is known to penetrate, and that its branches become shallower and shallower according to the lateness of its branching, that deep seeding is no preventative against the ravages of the fly

The last inference, and not the least, is that where the seed deposited is deep, and out of the influence of atmospheric air, that should the season be moist or wet at the time of seeding, the specific gravity of the soil being increased, and its pores closed with moisture before the vegetation has reached the branching point, the seed will rot in the ground, and either partially or totally destroy, or rather prevent a crop being made. This happened to several of my friends this last fall, and is a circumstance that I have seen often happen, notwithstanding the strong disposition farmers have discovered of late years for deep seeding To conclude, from a consideration of the above facts, and thirty years experience, I am of opinion, that the best depth for seed-

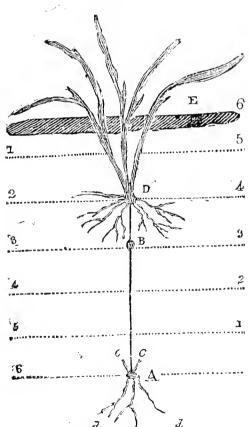
ing wheat is, from one to two inches.

Thus I have endeavoured to communicate my ideas respecting the growth and depth of seeding the wheat crop, and as connected with the Hessian Fly; should it prove acceptable to the society, I shall be amply rewarded for the trouble I have taken-and with my best

wishes for the welfare of their undertaking, I subscribe myself their friend,

WILLIAM MERIWETHER.

A delineation of the growth of wheat from the grain till it branches.



A. The grain of wheat deposited six inches beneath the surface of the earth, where it sprouts and throws out roots and two leaves which are called its seminal leav's and roots, and a central thread denominated from weeds.

B. A bulb formed on the caudex, being an effort of nature to form branches and roots at that place; but being too far out of the influence of the air, goes on to within two inches of the surface.

depth which he aimits the fly to penetrate. He admits (ches below the surface, having now reached within the influence of atmospheric air.

cc The two seminal or first leaves, dead when the wheat has branched on the surface, and are hardly discernable without the aid of a magnifying lens.

d d The seminal roots also dead after the coronal roots appear, and then are no longer useful to the plant. E The surface of the ground.

1, 2, 3, 4, 5, 6. Dotted lines, marking the number of inches beneath the surface at E.

From the Practical American Gardener, published by Fielding Lucas, jun.

# For the mouth of August.

[See page 1281]

Savoys, Brocoli, and Borecole

In the first week of this month, finish planting Savoys at the distance of two feet. With a little care, they may be preserved through the winter.

The early Vork Battersea, and sugar-loaf plants, the seeds of which were sown last month, may now be planted out, and some more of the seed sown the first week in this month, for heads late in October In the southein states, where the plants may remain out all winter, this will be useful. Plant now your last crop of Borecole, also the Brocoli from the nursery beds. Radishes.

In the early part of the month, sow a sufficient crop of short-top purple, and salmon radishes, also some of the white Naples, and white and red turnep-rooted sorts. In the middle or latter end of the month, sow

a second crop. Some of the white and black Spanish kinds, or win ter radishes, may be sown at either of the above periods.

Sowing and transplanting Lettness.

The kinds proper to be sown, early in this month for fall use, are the brown Dutch, grand admiral, large royal, imperial, white cos, Mogul, and New Zealand let tuces; sow them as directed in former months. In the last week of this month, sow some of the brown Dutch, hardy green cabbage lettuce, and grand admiral, to transplant in October, into frames of warm borders, for winter and spring use.

Transplant lettuces from your seed beds; give them a plentiful watering, as you plant them, and repeat it as often as necessary.

Small Sallading.

Where small sallading is required, it may still be sown, and watered, as before directed. Endive.

Transplant according to directions, such endive, as is of a suitable size, water it immediately, and repeat it, until the plants begin to grow freely. They must be planted in an open place, free from shade.

Select the large, full hearted plants of endive, when the leaves are very dry, otherwise they will rot; tie them together, not too tight, about the middle, with shreds of Russian mats, previously gathering all the leaves regularly.

Angelica, Fennel, and Carduus Benedictus.

Sow these seeds this month; they will produce stronger plants than if sown in spring, and be fit to transplant early the next year

Cardoons and Finochio.

Cardoons that have been planted out, must be treated, as directed.

Earth up Finochio, which is full grown, in order to blanch it.

Corn Sallad.

In the middle states this should be sown in the last week of this month, for winter and spring use; it should have a dry soil and open situation, and carefully raked in; the plants will soon appear above ground, when they are to be thinned, from 2 to 3 inches asunder. Melons and Cucumbers.

In dry weather, water your melon and cucumber vines three or four times a week; gather the fruit as it b. comes fit for use, and keep the plants perfectly free

Winter Cresses.

The winter cress is sown and treated, as the corn sallad; i' is commonly called scurvy grass, to which it is by no means allied. If sown in the last week of this month, or first in September, in a dry soil and warm D. The coronal roots and branches, formed two in situation, will afford an early sallad in spring.

Water Cresses.

Sow the seed in a watery or moist place; they are not to be cut the first year.

Spinach.

In the last week of this month, sow a principal crop of the prickley seeded spinach, for early spring use; this ought to be sown on a dry soil. A second sowing will be necessary, in the first week of September.

Turneps. The first week in this month is a suitable time to sow the principal crop of turneps, for autumn and winter use, whether in the garden, or field In the eastern states, the last sowing ought to be in the first week of this month. In the southern states, they may be sown later.

Artichokes. The late spring planting of artichokes, should now be treated, as directed for the older plants as before di-

Asparagus.

Asparagus must now be kept perfectly clean from weeds, but particularly those planted last spring, and also the seedling beds, by careful hand weeding. Celery.

Transplant into trenches, a full crop of late celery, as early in the month as possible, agreeably to directions as directed before.

Earth up the advancing crops as directed before. Peas.

A crop of the early peas may be sown, from the first to the tenth of the minth. If the weather prove dry, soak the peas, and water them, as directed before.

# THE FARMER.

BALTIMORE, FRIDAY, JULY 16, 1819. --- (A) ----

It is said. Potatoes may be kept good the whole year, by dipping them in hot water, as the Scotts preserve eggs, by killing the living principle; and as the germ is so near the skin, it would not hurt the Potatoe. One or two minutes, at most would be sufficient, in an open-worked basket, a ton might be cured in an hour or two.-This would be useful in providing ship stores; the trial is easily made

Thousands of foolish receipts are published and copied, which are found, on trial, to be fallacious .- Such was the one we lately copied about killing house flies with milk and pepper.-It is presumed, the author funnelled them, as they will not eat it without .- We shall endeavour to be very particular in striving to avoid giving currency to worthless nostrums.

SKIFFERS IN BACON-give much trouble to house wives in the country.-It has been discovered, by a female correspondent in the country, from whom we have received several useful communications, that skippers in bacon may be effectually and speedily destroyed by the use of elder juice, but the exact manner of preparing and applying it, are not described. - This ought always to be done in giving receipts-the field is yet open for numberless useful discoveries in all the department of rural and domestic economy.

Since writing the above, we have the following more particular account from our esteemed correspon-

dent: "Last year we lost at least one third of our ham meat, by the skippers, notwithstanding every attention, but never destroyed the skippers while the meat lasted. Our neighbours were, in this respect, as unfortunate as ourse-lyes.

This spring, knowing that our meat had been well smoked, and the weather being dry, we neglected airing it as custom ry, until our old enemy the skipper returned, and had eaten it smartly Sister, who attends to it had it examined, scraped and sunned; (no one can be more particular.) In a week after, she had it examin d and found that there were in it nearly as man. sk ppers as a. first: you may suppose, after the toss we's ff'red fast year, we were very anxous to distroy this troublesome insect. I had known for many years, that eld i juice would destroy muggets. If a hog, slemp, or any other in end gets wound d, and he flies get to the wound, they will create miggots; by washing the wound with elder juice, they will roll out b. him reds, f there be so many in it. 1 proposed therefore to try

tasto to the meat 1 have little doubt, that this, with four hundred pounds of rought fat, which sells now at many other simple applications within the reach of eve- 9 cents per lb. ry housekeeper, might be applied to many other useful purposes, if proper pains were taken to make the trial supplied from a distance of many hundred miles, North if such homely communications, on such homely subjects, are admissible in the Imerican Parmer, you can mers in Calvert, Charles, St. Mary's, Prince George's, publish what I have written, as you know you can de- and all the lower counties of the Eastern Shore, look pend on its accuracy, and I shall be amply paid for my upon the proposition to raise live stock, for the Ealti trouble by what I know I shall receive, the thanks of more market, as an enterprise, little less bold, and dif-A HOUSEKEEFER.

in the early part of the year, to be materially injured is the use of their thousands of acres of fine marshes, but the crop of oats is destroyed, and Hay very greatly and their large farms, universally adapted, especially diminished in weight—pastures are literally burnt on the Western Shore, to the kind and easy, and abun come now in season, have been destroyed or greatly in- mer food? jured and diminished. Last Sunday, which was intensely hot, gave promise of a fine rain, but we were favoured district so well adapted to supply our market with fine it, we should think, require it. with enough only to lay the dust and cool the air, momentarily

would water a large bed of plants in a few hours, but to produce nothing but tobacco-corn-wheat-ryebetter.

precedented drought-seeds planted in June would, we should fear, perish for want of rain to make them veg ctate.-It is useless to sow the seed in the present state of the ground. The time recommended by Mr Cobbett, first of August, or even the first week in that month, companion of "his father, and his grand father." We one knew a good crop of common turnips from a spains on the 10th of September.

and turn them out to feed in that way; they soon become accustomed to it, and work afterwards, on either side alike

THE PROTIES OF LIVE STOCK .- We are well convinced, that this subject, deserves the serious consideration his table; and he does not recollect, that since the war he has ever paid, for either, less than twelve and an their culture, quality, &c. &c. half cents per pound. For yeal cutlets this morning. he had to give feurteen cents per pound. Now he holds it to be impossible, that meats could maintain such prices, if the hundreds and thousands of acres of waste land in Maryland-and, especially as he knows, in the lower counties of it—were judiciously appropriated to the cultivation of artificial grasses, which, be it remem hered after all, must constitute the basis of a live stock the beef may be viewed this morning, at the stail of the country.

Within the last week, a very respectable, and wealthy victualler of this city, bought of a gentleman near

it is a curious fact, that while our beef market is and West of the city, above the great mail road, Farfigult of execution, than did Lewis and Clarke, when they first contemplated an untrodden journey across, THE DROUGHT—is said to exceed any ever recollected the rocky mountains, to the Pacific Ocean; yet where

mutton, as that range of country, from Herring By, to the mouth of Patuxent.—Its lofty cliffs and steep hills. TOBACCO.—The season has been unusually adverse to and its peculiarly early, and abundant production of thes themselves would raise a like sum. -In .V. Y. \$20,000 the cultivators of tobacco. February and March were grass, offer to the sheep, that which is so congenial, and has been appropriated, and what better use could be very unprojitious to the sowing and sprouting of seed ; grateful to its character-a dry bed and a good pas-made of the State treasure, than by distributing it in a and since plants were large enough to put out, no sca- ture-yet, how many are brought here, from there, in manner which would have a direct and powerful tensons have offered, and the plants have been burnt up in the course of the year?—Perhaps not one.—How much dency to enlighten, and give encouragement to that the beds; quere-ought not beds to be located, when veal?—Not a pound—How muck beef?—Not a single calling, on whose skill and labour the prosperity for practicable, near a stream of water, with a view to mater. pound-ye: a Steam-Boat passes, almost within hail of ing the beds, for which some machine or utensil, might crery farm in the county, once a week-what an enterbe made, less tedious than the common watering pot-prising people! They would seem to dream away their though even with that, we would suppose, that one man lives, under the impression, that this world was made this should always be done late in the evening or very oats, and pinewood!!!-They often remind us of the boy. early in the morning; the former perhaps would be who, riding to mill. in one of the lower counties of Ma ryland, with his corn in one end, and a large stone in the Ruta Baga .- The summer has been unfavourable to a other end of his bag, to balance it, was persuaded by a tair experiment of the Ruta Baga, on account of the un-passing stranger, to throw out the stone, and divide the corn equally in each end of the bag -On returning home, he told his father of this novel, and as it seemed to him useful, expedient to get rid of the old stone, which had grown smoothe in its services to the family for Long Island, is the 25th June, with which, we should! The father however, far from being satisfied, shook his think, from the 10th to the 15th July would correspond head sagely, moralized on the apt tendency of youth, to tate to take advantage of a season, any time before the bring the good old stone, which had been the mill road management, that might, be compared, without exag-

geration, to the mill-boy, and the balance stone. For instance—compare the expense of digging a well Working Oven .- When oven refuse to work equally near the house, and convenient to the farm yard, which well un either side, or when they pull off against each should supersede the necessity of driving the stock to other, toke them on the side you wish them to work water-with the labour and loss of time, and consequent expense, of sending small pails a quarter of a mile for every drop of water the family uses, and driving the stack there for water; losing all their manure on the -and this continued from one generation, and one of a great portion of land holders, who now employ century after another!!— But we are wandering from their care, and their capital, on objects much less protthe subject—when the kindness of correspondens fitable, and far more laborious, than that of raising, or shall fail to furnish us with matter, more useful than fattening live Stock for the Baltimore, Washington, and any thing we could suggest, we shall take up the subother markets .- Not a week passes, that the Editor of ject of artificial grasses, as being the foundation of every this paper, does not buy both yeal, and fresh beef, for good system of husbandry, and indispensable to the improvement of land-we shall treat of their various kinds,

Superior Beef-We are informed, that the Messrs. 'assidy's purchased last week, for a sum amounting to early \$600, four of the finest fatted oxen ever brought to his market. They were exhibited in the streets on saturday last, and pronounced by competent judges to he superior to any thing they had ever before seen -above named gentlemen, in the rly Market, where it will be offered for sale. Two of these fine eattle were fated by Thos Hoga, Esq. of Chatham, Columbia county, Charlestown, Virginia, fourteen bullocks, for which and two by Mr. Derum, of Rensselaer county .- Albany p. Straw, 514. Tobacco, no change.

it on our hacon. The leaves were accordingly beat in he gave him 8 1-2 cents per pound—that is, for the In this paper, we have concluded the publication of a mortur, adding a little water; the flesh side of the butcher's meat.—They averaged about 750 pounds the proceedings of the Agricultural Society in Prince In this paper, we have concluded the publication of ment was rubbed with the leaves thus bruised, and each; so that the grazier may be supposed to have got George's County, and who of our readers is not delighted, where small holes appeared, the juice was poured in at least sixty dollars a head, and, for the fourteen, not at the high promise of improvement, which must result In three weeks after the meat was re-examined, and the less than \$850. The butcher, we have no doubt, clear-from so much practical activity, and such a spirit of skippers utterly destroyed. The application here described \$20 a head, so that he cleared on the fourteen, at investigation and research? Though the proceedings ed, does not in the least degree communicate any bad least \$280—two of these beeves yielded upwards of do not mention it, we believe, T. Law, Esq. a gentleinvestigation and research? Though the proceedings man, whose acquirements are co-extensive with his extraordinary opportunities of observation, in various quan ters of the world, is the President of the Society.-Ilis address was published in No. 15 .- That of the Vice President Mr. Daingerer LD, will be found in this number; and demands attention, both on account of some novel theories it contains, and the practical results established by actual and eareful experiment.-The communication from that eminent and exemplary Furmer, F. S. LEE, Esq of Frederick, has called to our mind a very important essay of Gov. Nicholas, of Virginia, on the practicability and advantage of removing the corn, in this neighbourhood—fortunately wheat and rye had is there a district better adapted to the raising of live stalks and all, from the field, prior to sowing it in wheat made too much progress during the favorable weather stock, than the counties we have mentioned? Where If we can lay our hands on it, it shall appear in our next paper, as we deem it especially worthy of public attention.—We can no longer defer suggesting to the several Societies, in the different counties, the expediency up, on many fine lots—not a sprig of living grass dant growth of potatoes, and turnips for winter—and of memorialising the next Legislature, for a docation, to is to be seen; all the productions of the garden, which red clover, lucerno and timothy for winter and sum be distributed in premiums, for superior agricultural productions, and systems of management.—We have not The whole United States, perhaps, does not contain a time or room, now to dwell upon the subject, nor does

In some of the castern states, the Legislatures have given small sums to Societies, on condition that the Socie-Society so mainly depend. We shall enlarge on this

topie hereafter.

WINDSOR, (Vermont,) June 21: Extraordinary Cow .- There was taken from a cow belonging to Gen Forbes, of this town, on the evening of the 4th inst. at one milking, 22 quarts and nearly a half pint of milk, notwithstanding her calf, which was healthy, had been with her during the day.

STAPLES OF NORTH CAROLINA .- The very liberal patronage this paper has received in North Carolina, makes it incumbent upon us to state more particularly, hereafter, the prices of the staple commodities of that State.

The Persian Ambassador being present at a debate in in blaryland, and south of it-but we should not hest innovate on old family customs, and sent him back to the Chamber of Deputies, in Paris, a gentleman observed, that "the progress of Persia, was behind the light of the age." The Ambassador replied-"My master is There are, if we mistake not, many customs in rural cousin-german to the Sun, and uncle to the Moon; and is content with the light of his family."

> CURRENT PRICES OF COUNTRY PRODUCE-AS-CERTAINED BY ACTUAL SALES-WITHIN THE LAST WEEK.

Wheat, red, new crop, \$1-20; a sale has been made at \$1-23-little in market. Corn, per cargo, 52 cents-retailing at 56. Rye, 65 cents .way-and most generally, not driving them back at all ()ats, 45 cents. Liverpool blown Salt, retail, 75 cts. Flour, superfine, from the wagons, \$6.25; tore price, \$6-50. Bacon, the hog round, 12 } cents. Burcher's beef, best pices 10 to 12 1-2 cents. Chickens, per doz. 2 50 to \$3. Veal. 10 to 12 cents. Mutton. 6 to 8. Salt Beef, prime meces, 7 to 12. Pork, 8 to 10. Eggs, per doz. 20 to 25 cents. Potatoes, new crop, per peck, 25 to 37½ cents. Herrings, per barrel, No. 1, 2.75 to \$2 87]—Do. No. 2, 2-25 to \$2 62\$ Tar, per hbl, by the cargo, \$1.60. Rozin, \$2-Pitch, \$2-75. Turpentine, \$2-50. Susquehaash Pork, per bbl. 14 to \$15. Boston Beef, No. 2, S11 retail. Whiskey, from the wagons, 40 ts. per gal. Plaster, in the stone, per cargo, 4 10 to \$4 87 1-Do. ground, per bushel, 40 to 45 cents. Hay, timothy, new crop, \$20 per ton.-

# PRICES CURRENT

#### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Revised and Corrected	ever	y knursuty.
		RETAIL PRICES
DEBI, I continue and	bbl.	17
No t No 2		15 13 50
Bacon,	ıb.	16
Butter, Ferkia		18 20
Coffee, first quality,		33 27 28
coiton,		27
Twist, No. 5,		45
No. 6 a 10,		46 50 53 80
No. 11 a 20, - No. 20 a 30, -		80 1 20
Chocolate, No. 1,	'	<b>3</b> 3
No. 2,		28 25
No. 3, Candles, mould,	zod	20 22
dipt,		18 19
spermaceti, -	lb.	45 scarce 10 15
Cheese, American, Feathers,	10.	60 65
	qtl.	<b>3</b> 50
herrings, Susquehannah,	bb).	2 75 retail 9 12
mackarel, No. 1 a 3 - ; shad, trimmed, - ;		9 12 7 87
Flour, superfine,		5 50 6
fine,	bbl.	5 5 50
middlings,		4 50 5 4 a 4 25
rye, Flaxseed, rough,	cask	none.
	bush	do
Flax, Hides, dryed,	lb.	de 12 15
Hogs lard,		12 13
Leather, soal,		25 30
Molasses, Havana, New Orleans, -	gal.	62 1-2 75
sugar house,		1
Oil, spermaceti,	gal.	1 50
PORK, mess er 1st quality, - prime 2d do	bbl.	18 a 20
cargo 3d do		14 a 15
Plaster,	ten	5
Rice,	bbl. lb.	1 75
Spirits, Brandy, French, 4th proof		2 3
peach, 4th proof		1 25 1 50
apple, lst proof Gin, Holland, lst proof		1 50
de. 4th proof		
do. N. England		50 60 1 50 2
Rum, Jamaica, American, 1st preof		1 50 2
Whiskey, 1st proof		50 62 1-2
Soar, American, white,	lb.	18 20
de. brown, - Sugars, Havana, white,		19
brewn,		12 15
leaf,	nh.	25 28 20 <b>a</b> 25
Salt, St. Ubes,	lb. bu .	20 a 25
Liverpool, ground,	1	75 1
Shot, all sizes,	lb.	12
TOBACCO, Virginia fat, do. middlings,	cwt.	6 50
Rappahannock,		5 5 50
Kentucky, - small twist, manufactured,	lb.	6 50 7 50
peund do		50 75
TEAS, Echea,		63
Souchong, Hyson Skin	ib.	75 a 100
Young tiysen,		1 25 a 150
Imperial,		1 75
WOOL, Merino, clean, unwashed, -		80 40
crossed, clean,		65
unwashed, -		35
common country, clean, unwashed		37 25
skinner's,		33
		-

## POETRY.

#### THE DOCTOR & CAPTAIN, A TALE FROM BATH.

In Bladud's city, place of vast renown, Where, in the season, wealthy cits from town Escort their wives and pretty daughters,

To make a dash, To cut a splash.

To dance, to play at cards, and drink the waters-A strife arose 'twixt men of high condition, ACaptain this and that a grave Physician. One morn, the hero of the scarlet coat.

Upon the Doctor's gate, with pencil wrote " Scoundrel!" in letters clear and plain:

The Doctor saw amazed he stood He long d to let the Captain blood; And, waxing wroth, he grasp's his gold-topp'd cace, Then sallied forth, and, after various dodgings, At length he found the neble Captain's lodgings;

There in politeness to be conquer'd, scorning, He told the servant with an arch regard, " Give to your master Doctor Pestle's card.

For at my gate he left his NAME this morning"

### AMUSEMENT.

#### PUT WATER IN THE PUMP.

Kneller was very covetous, very vain, and a great glutton. Old Tonson, the Bookseller, got many pictures from him by playing these passions against each other. He would tell Kneller that he was the this ought to he sown on a dry gravelly soil, for on such greatest master that ever was, and send him now it will stand the winter hetter than on any other. With and then a haunch of venison and a dozen of claret, this sowing, scatter a few seeds of brown Dutch or "Oh!" said he once to Vandergucht, "This old cabbage lettuce. Jacob loves me, he is a very good man: you see he loves me, for he sends me good things, the venison months, should be kept free from weeds; for if the seeds was fat!"

the Christie of his age, "I love you, Mr. Cock, out of the garden, should not he introduced therein and I will do you good, but you must do something again, until it is three or four years old. for me too, Mr. Cock; one hand can wash the face, but two hands wash one another "

have been the maxim of Sir Godfrey; or, according three or four times a week, before sun-rise and partito the Latin adage, manue manum fricut-put cularly after sun-set; clear away the stalks and rubbish water in the pump.

#### THE QUAKER AND PARSON.

A Quaker, that was a barber, being sued by the parson for tithes, Yay and Nay went to him and cabbage, parsnep, onion, leek,&c. in short, the general demanded the reason why he troubled him, as he variety of seeds, that are sown in the middle states, in had never any dealings with him in his whole life; the months of March and April; these kinds arrive there "Why," says the parson, "it is for lilhes." "For in a tolerable degree of perfection, before their winter tithes!" says the Quaker, "I pry'thee friend upon of their escalent crops, and such of them as do not arwhat account?" "Why," says the parson, "for rive at maturity before winter, attain it early in the preaching in the church." "Alas then," replied spring. the Quaker, "I have nothing to pay; for I come not there." "Oh, but you might," says the parson, "for the doors are always open at convenient the knife must not be used except to irregular shoets. times," and thereupon said he would be paid, seeing as from those of this season's growth fruit is to be it was his due. Yea and Nay hereupon shook his expected next year, and these bearing principally tohe ad and making several wry faces, departed, and wards the extremities, ought not to be shortend. immediately entered his action (it being a corpora tion town) against the parson for forty shillings The parson upon notice of this, came to him, and very hotly demanded, why he put such disgrace branches should be hound with bands of hay, taking upon him; and for what he owed him the money? care to place some between the branch and stake, lest "Truly friend," replied the Quaker, "for trunming." "For trimming!" said the parson, "why
I never was trimmed by you in my life." "Oh bu"

PRINTED EVERY FRIDAY AT 34 PER ANN thou might'st have come and been trimmed, if thou hads't pleased, for my doors are always open at convenient times, as well as thine."

[ Continued from page 126.] Kidney beans.

Early in this month you may plant a crop of the dwarf kidney beans. If the ground be dry at the time, the drills eught to be watered, and the beans soaked in soft water, four or five hours before planting.

Curolina and Lima Beans. Hee and clean between the rows of these, and cut off any runners, that trail on the surface of the ground which only tend to rob the bearing vines.

Parsneps.

About the fifteenth of the month, in the middle and eastern states, a bed of parsneps may be sewn in drills as before directed. These will come up this fall and they may be wed with a hee, and kept clean from weeds and in the spring, thin them as before directed. Should any run up for seed (which they seldom will) these may be pulled out. The ground should be previously trenched two spades deep, and well manured.

Herbs.

Cut such herbs as are now in flower to distil, or to dry for winter use; always perform this, when they are dry, and spread them in a dry shady place. Collecting Seeds.

As the different kinds of seeds ripen, gather them in dry weather, and manage them, as directed last month

Spinach.

Prepare seme ground, and sow a crep of the smooth round seeded kind, to be sown in the first week of the month; these will be fit for use in September. Sow mere in the second week, which will be good in Oc-

In the last week of this month, sew the first principal crop of the prickly seeded spinach, for early spring use;

Dung, or Compost Heaps and Weed Heaps.

The dung and compest heaps, during the summer are permitted to ripen and fall, the dung, when carried Kreller would say to Cock, the auctioneer, and into the garden, will poison the whole ground.

The manure produce by the heaps of weeds taken

General Remarks.

Continue to weed all young crops in wet weather, then the weeds will come upreadily by the roots; water If you would be tickled, tickle first, seems to the crops, particularly the young ones, in dry weather, of old crops; take showery weather for planting, and dry weather for carthing up plants.

Southern States.

In the southern states, particularly the Carelinas and Georgia, this month being in the commencement of their rainy season, it is common to sow cauliflowers, sets in, which is so very mild, as scarcely to injure any

Fig Trees.

The wall and espalier fig trees will now be ripening their fruit; they should be kept regularly trained but

Have the same care to the orchard, as directed. Such of your standard peach and other trees, as are overburthened with fruit, and likely to break down,

FOR JOHN S SKIN ER, POITOR, At the corner of Market and South-streets.

BALTIMORE.

# AMERICAN FARMER.

# RURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CUERENT.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIRG.

Vol 1.

# BALTIMORE, FRIDAY, JULY 23, 1819.

Num. 17.

## INTERESTING.

#### THE WIFE.

The treasures of the deep are not so precious As are the concealed comforts of man Lock'd up in woman's love. I scent the air Of blessings, when I come but near the house. What a delicious breath marriage sends forth-The violet bed's not sweeter. MIDDLETON.

I have often had occasion to remark the fortitude with which women sostain the most overwholming reverses of fortune. Those disasters which break down the spirit of man, and prostrate him in the dust, seem to call forth all the energies of the softer sex, and give such intrepidity and elevation to their character, that at times it approaches to sublimity. Nothing can be more touching than to behold a soft and tender female, who had been all weakness and dependence, and alive to every trivial roughness while treading the prosperous paths of life, suddenly rising in mental force, to be the comforter and supporter of her husband, under misfortune, and abiding with unshrinking firmness, the bitterest blasts of adversity.

As the vine which has long twined its graceful foliage around the oak, and been lifted by it into sunshine, will, when the hardy plant is rifted by the thunder-holt, cling round it with its caressing tendrils, and bind up its shattered boughs; so is it beautifully ordered by Providence, that woman, who is the mere dependant and ornament of man in his happier hours, should be his stay and solace when smitten with sudden calamity, winding herself into the rugged recesses of his nature, tenderly supporting the drooping head, and binding up the broken

I was once congratulating a friend, who had around him a blooming family, knit together in the strongest affection. I can wish you no better lot, said he, with enthusiasm, than to have a wife and children—if you are prosperous, there they are, to share your prosperity; if indeed, I have observed that married men falling into misfortune, are more apt to retrieve their situation in the world than single men; partly because they are more stimulated to exertion by the necessities of the helpless and beloved beings who depend upon them for subsistence; but chiefly because their spirits are soothed and relieved by domestic endearments, and their self respect kept alive by finding, that though all abroad is darkness and humiliation, yet there is still a little world of love, of which they are monarchs -Where a single man is apt to run to waste and self neglect; to fancy himself lonely habitant.

These observations call to mind a little do- ness!" mestic story, of which I was once a witness.

of indulging her in every elegant pursuit, and administering to those delicate tastes and fancies, that spread a kind of witchery about the sex .- 'Her life,' said he, 'shall be like a fairy tale.

The very difference in their characters produced an harmonious combination: he was of a romantic, and somewhat, serious cast; she was all life and gladness. I have often noticed the loves are concealed from it." mute rapture with which he would gaze upon her in company, of which her sprightly powers made her the delight; and how, in the midst of applause, her eye would still turn to him, as if there alone she sought favour and acceptance. When leaning on his arm, her slender form contrasted finely with his tall, manly person. phant pride and cherishing tenderness, as if he doated on his lovely burthen for its very helpthe flowery path of early and well-suited marriage with a fairer prospect of felicity.

It was the mishap of my friend, however, to heart, it will break her heart!have embarked his fortune in large speculations; and he had not been married many months, when by a succession of sudden disasters, it was swept from him, and he found himself re- relapsed into moody silence, I resumed the subduced almost to penury. For a time he kept ject gently, and urged him to break his situahis situation to himself, and went about with a lion at once to his wife. He shook his head haggard countenance, and a breaking heart. His life was but a protracted agony; and what rendered it more insupportable, was the necessity of keeping up a smile in the presence of his wife, for he could not bring himself to overwhelm her with the news. She saw, however, with the quick eyes of affection, that all was not well with him. She marked his altered looks and stifled sighs, and was not to be deceived by his sickly and vapid attempts at cheerfulness. She tasked all her sprightly powers and tender blandishments to win him back to happiness; but she only drave the arrow deeper into his soul. The otherwise, there they are to comfort you.' And, more he saw cause to love her, the more torturing was the thought that he was soon to make her wretched. A little while, thought he, and the smile will vanish from that cheek-the song will die away from those lips-the lustre of those eyes will be quenened with sorrow; and the happy heart which now beats lightly in that bosom, will be weighed down, like mine, by the

cares and miseries of the world. At length he came to me one day, and related his whole situation in the tone of the deepest despair. When I had heard him through, I injuired, "does your wife know all this ?"-At the question he burst into an agony of tears. and abandoned, and his heart to fall to ruin like | For God's sake" cried he, "it you have any some deserted mansion, for want of an in- pity on me, do not mention my wile; it is the thought of her that drives me almost to mad-

" And why not?" said I. " She must know My intimate friend, Leslie, had married a beau- it sooner or later: you cannot keep it long from

was ample; and he delighted in the anticipation (en the harshest tidings. Besides you are depriving yourself of the comforts of her sympathy, and not merely that, but also endangering the only hand that can keep hearts together-in unreserved community of thought and feeling. She will soon perceive that something is secretly preying upon your mind; and true love will not brook reserve, but feels undervalued and outraged, when even the sorrows of those it

6 Oh! but my friend! to think what a blow I am to give to all her future prospects-how I am to strike her very soul to the earth, by telling her that her husband is a beggar! that she is to forego all the elegancies of life -all the pleasures of society—to sink with me into indigence and obscurity! To tell her that I have dragged The fond confiding air with which she looked up her down from the sphere in which she might to him, seemed to call forth a flush of trum- have continued to move in constant brightness -the light of every eye-the admiration of every heart! How can she bear poverty? she lessness. Never did a couple set forward on has been brought up in all the refinements of opolence. How can she bear neglect? she has been the idol of society. Oh. it will break her

I saw his grief was eloquent, and I let it have its flow, for sorrow relieves itself by words. When his paroxism had subsided, and he had mournfully, but positively.

· But how are you to keep it from her? It is necessary she should know it, that you may take the steps proper to the alteration of your circumstances. You must change your stile of living-nay,' observing a pang to pass across his countenance, 'do not let that alllict you. I am sure you have never placed your happiness in outward show-you have yet friends, warm friends, who will not think the worse of you for being less splendidly lodged; and surely it does not require a palace to be happy with Mary.'

'I could be happy with her,' cried he convul-sively, 'in a hovel!—I could go down with her into poverty and the dost !- I could-I could-God bless her! God bless her!' cried he, bursting into a transport of grief and tenderness.

'And believe me, my friend,' said t, stepping up, and grasping him warmly by the hand, beheve me, she can be the same with you. Ave more: it will be a source of pride and triumph to her-it will call forth all the latent ener is and f event sympathies of her nature, for she will rejoice to prove that she loves you for yourself. There is in every true woman's heart a spark of heavenly fire, which lies dormant in the broad day light of prosperity; but which kindles up, and beams and blazes in the dark hour of adversity. No man knows what the wife of his bosom is-no man knows what a ministering angel she is-antil he has gone with her through the fiery trials of this world.'

There was something in the earnestness of mantiful and accomplished girl, who had been her, and the intelligence may break upon her in her, & the figurative style of my language, that brought up in the midst of fashionable life. She a more startling manner, than it imparted by caught the excited imagination of Lessie. I know had, it is true, no fortune, but that of my friend yourself; for the accents of those we love soft- the auditor I had to deal with, & following up the

impression 1 had made, I finished by persuading a nothing to be reduced to this paltry situation—to a happy one, yet never has be experienced a mo-

I must confess, notwithstanding all I had said, I habitation!' felt some solicitude for the result. Who can calculate on the fortitude of one whose life has been a round of pleasures? Her gay spirits might revolt at and good humour. Indeed, she seems in better the dark, downward path of low humility, suddenly spirits than I have ever known her; she has been pointed out before her, and might cling to the sunny to me all love, and tenderness, and comfort !' regions in which they had hitherto revelled Besides, ruin in fashionable tife is accompanied by so self poor, my friend; you never were so rich-you many galling mortifications, to which in other ranks, never knew the boundless treasures of excellence it is a stranger In short, I could not meet Leslie, you possessed in that woman.' the next morning, without trepidation. He had! made the disclosure.

And how did she bear it?'

to her mind, for she threw her arms around my. want of accustomed conveniencies or elegancies erty.' When we come particularly to experience its sordid will be the real trial?

'But,' said I, 'now that you have got over the to his wife, she was only anxious to conform to my arm; we paused and listened. It was Mary's their altered fortunes.

evening. He had disposed of his dwelling house, liarly fond. and taken a small cottage in the country, a few was too closely associated with the idea of herself; a few wild flowers were twisted in her fine hair; a it be longed to the little story of their loves; for fresh bloom was on her cheek; her whole countewere those when he had leaned over that instrument look so levely. and listening to the melting-tones of her voice 11 'My dear George,' cried she, 'I am so glad could not but smile at this instance of romantic gal-lyou are come; I've been watching and watching lantry in a doating husband.

wife had been all day, superintending its arange. ful tree behind the cuttage; and I've been gathment. My feelings had become strongly interested ering some of the most delicious strawberries, in the progress of his family story, and as it was for I know you are fond of them-and we have evening, I offered to accompany him.

and as we walked out, fell into a fit of gloomy arm within his, and looking up brightly in his

' Poor Mary!' at length broke with a heavy sigh, from his lips.

'And what of her,' asked I, 'has any thing happened to her.'

"What,' said he, darting an impatient glance, 'is

him to go home and unburden his sad heart to his be caged in a miserable cottage—to be obliged to nent of such unutterable felicity. toil almost in the menial concerns of her wretched

'Has she then repined at the change?'

'Repined! she has been nothing but sweetness,

'Oh, but my friend, if this first meeting at the able. But this is her first day of real experience: neck, and asked if this was all that had lately its miserable equipments—she has for the first time

silence.

On this point I found Leslie perfectly some shrubbery to the door. Just as we approach-Some days afterwards he called upon me in the singing a little air of which her husband was pecu-

I felt Leslie's hand tremble on my arm. He step-

for you, and running down the lane, and looking He was now going out to the cottage, where his out for you. I've set out a table under a beautisuch excellent cream-and every thing is so He was wearied with the fatigues of the day, sweet and still here-Oh!' said she, putting her face, 'Oh, we shall be so snug!

Poor Leslie was overcome. - He caught her to kissed her again and again—he could not speak, often assured me, that though the world has since rye. gone prosperously with him, and his life has been

## AGRICULTURE.

From the Memoirs of the Agricultural Society of Virginia.

#### ON INDIAN CORN.

'Admirable girl!' exclaimed 1. 'You call your- A paper presented by Wilson C. Nicholas, Vice President.

MANY experienced farmers (and among others the highly distinguished president of the agricultural society of Pennsylvania) are of opinion, that cottage, were over, I think I could then be comfort- wheat ought not to be sown upon corn land. I presume this opinion was formed when the prac-Like an angel! It seemed rather to be a relief She has been introduced into a humble dwelling tice was to sow upon our corn fields when they -she has been employed all day arranging were hard and foul, with the corn standing, and with a slight ploughing with a single horse plough. made me unhappy-hut. poor girl,' added he, ' she known the fatigues of domestic employment-she in any rotation of crops, if the corn land is macannot realize the change we must undergo. She has for the first time looked around her on a home nurred and the corn taken off so as to admit of the has no idea of poverty but in the abstract : she has destitute of every thing elegant, and almost conve- land being well ploughed, and seeded in good time, only read of it in poetry, where it is allied to love. hient; and may now be sitting down, exhausted and I consider it good husbandry. Corn is not as mild She feels as yet no privation: she experiences no spiritless, brooding over a prospect of future pov- or ameliorating a fallow crop as some others; but it is of so much value as to justify its culture in There was a degree of probability in this pic-this way, even if more indulgence is given to the cares its paltry wants, its petty humiliations-then ture that I could not gainsay, so we walked on in and in other parts of the course. Mr. Arthur Young, who was less acquainted with the nature After turning from the main road, up a narrow of corn than we are, speaks of it as an excellent, severest task, that of breaking it to her, the sooner lane, so thickly shaded by forest trees, as to give fallow crop. They leave to state to the scene y you let the world into the secret the better. The it a complete air of seclusion, we came in sight of the opinion of that gentleman in his own words; disclosure may be mortifying; but then it is a single the cottage. It was humble enough in its appear- when speaking of the agriculture of France, he misery, and soon over, whereas you otherwise suf-lance for the most pastoral poet; and yet it had a says, when I give the course of the French fer it, in anticipation, every hour in the day. It is pleasing rural look -A wild vine had overrun one crops, it will be found, that the only good husnot poverty, so much as pretence, that harrasses a end with a profusion of foliage; a few trees threw bandry in the kingdom, (some small and very ruined man-the struggle between a proud mind their branches gracefully over it; and I observed rich districts excepted,) arises from the possesand an empty purse—the keeping up a hollow show several pots of flowers tastefully disposed about the sion and management of this plant. (corn.) Where that must soon come to an end. Have the courage door, and on the grass plot in front. A small wick there is no maize, there are fallows; and where to appear poor, and you disarm poverty of its sharp-let gate opened upon a footpath that wound through there are fallows the people starve for want. For the inhabitants of a country to live upon a plant. prepared. He had no false pride himself, and as ed, we heard the sound of music-Leslie grasped which is a preparation for wheat, and at the same time to keep their cattle fat upon the leaves of it. voice, in a style of the most touching simplicity, is to possess a treasure, for which they are indebted to their climate." In another part of his work, Mr. Young says, "whatever merit is found in French agriculture, depends on one of those two miles from town. He had been busied all day in ped forward, to hear more distinctly. His step made points, either upon extraordinary fertility of soil, sending out furniture. The new establishment re- a noise on the gravel walk. A bright beautiful face as in the case of Flanders, Alsace, and the Gaquired few articles, and those of the simplest kind glanced out of the window, and vanished—a light ronne, or on the culture of a plant particularly All the splendid furniture of his late residence had footstep was heard—and Mary came tripping forth adapted to the southern or middle climates of the been sold, excepting his wife's harp. That, he said, to meet us. She was in a pretty rural dress of white; kingdom; that is marze; which plant he says is never found on hard or even ordinary soils. I have before given it as my opinion that the quantity of some of the sweetest moments of their courtship nance beamed with smiles-I had never seen her land that should be planted in corn ought to he confined to what a farmer can manure on rich buttoms. Upon such land if it can be seeded in good order and in good time, thelieve, with Mr. Young, corn will be found a good fallow crop. This I unrerstand to be the opinion of the President of this society, whose authority is entitled to the highest respect. Upon a Virginia farm with the force usually employed, I hazard nothing in saying, that more land can be sown in wheat than can be cultivated in corn, as the preparation for wheat is chiefly made af er the culture of corn is over. My optnion therefore is, that our wheat crops in the wheat counties, must be made buth upon corn land and his bosom—he folded his aims around her—he clover fallows.\* Whether it is proper or not to

but the tears gushed into his eyes. And he has Young, the French course he speaks of, is wheat, fallow, \* These are not the fallows so justly reprobated by Mr.

the people of Virginia, rely upon that sort of land mentioned it to my neighbours what I had seen for their crops of wheat, that any management that and heard, and suggested the benefit we might depromises to increase the crop of wheat after corn, five from pursuing the same practice; but the would be useful, and I have no doubt will be well received. It is but a few years since the practice was universal to sow wheat among the standing corn; that practice is now and properly so generally exploded, that it is rare to see a field managed in that way. The corn is now cut up and stacked in the field, or hauled off at once, and the land my late sown and hadly prepared corn fields, that ploughed before it is seeded. The only objection to this is, that it makes the seeding too late, so l that the wheat has not sofficient strength of root to bear the alternate freezing and thawing of our irregular winters; it is less able to resist the fly in the spring and more subject to rust, and the more common calamity in this climate of ripening too suddenly: the inevitable consequence of which is the grain being light and shrivelled. The importance of sowing wheat in proper time upon land in good order, is known to every farmer. It usually makes the difference of a good or a saving crop, and one that will not pay the expense of seed and culture. Until we had to combat with that most formidable for the Hessian Fly, our seed time was ample; wheat was sowed from the middle of August to the middle of October. The opinion naw is, that there is little chance for wheat to escape the fly in the fall, if it is sown earlier than the 8th or 10th of October, and as little of its preservation from the same enemy in the spring, if sown after October. Twenty days, subject to a deduction for Sundays and for rain, would reduce the seeding time to 12 or 15 days. To this society, it is unnecessary to say, that it is impracticable to accomplish the cutting up the corn, the stacking, hauling it off and to plough and seed all the wheat land of a farm in that time, with or without fallows; and to do it in a way that would justify the mager, Mr. Wm. S. Fowler, whose skill and judg expectation of a crop. If it shall be found that ment I relied very much upon in other things, exthe Lawler wheat does resist the fly after it is pressed great reluctance at risking so much corn. generally sown, it will be a treasure (if in no other and great apprehensions as to the result. Immeway) in lengthening the seed time. If we could diately after the corn was cut, and before it was safely sow two weeks earlier than we do, it would add immensely to the crop in all the clay country: bot I fear when there shall be no other wheat seeded, it will be found, that grain will be as subject to destruction as rye is, when there is no wheat for this insect to make use of in propagating itself. I housed. The corn was found as good as that half offer to the society the result of an experiment I of the field which was not cut; with an immense made last year upon half a field of an hundred acres of corn, that was highly satisfactory, as it enabled me to sow my corn land in better time and ty and value than would have been had in the in better order than I could have done in any other mode.

I have been long apprised of a practice, which I believe commenced on the South Branch of the Potomac, and has now spread itself considerably. of cutting down corn and stacking it, precisely at the time, and in the state in which we would, in this part of the country, pull the corn blades. When I had the pleasure, some years ago, to be at the house of Mr. John Lewis, in Bath county, about the 10th September, out of a crop of 100 acres of corn, he had then cut and stacked 50 acres, and informed me he should continue until he had secured the whole in the same way; that he had repeatedly done it before, and that he was thoroughly satisfied that he did not make less corn than he would have done under the old management; that he had vastly more provender for cattle than he would have had in the common mode of saving the fooder, and there was a saving of is as soon as it is thought safe to cut and stack the

sow wheat upon coro land, so great a proportion of [ half the labor. On my return to Albemarle, I [ corn- When the corn is stacked entire, the bottom universal opinion was, that our corn would either rot or shrive!, if cut in that state. I had two experiments made the next year, but they were executed in the manner that such experiments usually are, by unwilling agents. In 1817, my loss of wheat by the fly was so great, particularly upon I determined, in future, to confine my seeding to land which I could sow in good time, and in good order. In the course of last winter. I had an opportunity of conversing with a gentleman (Wm. Steinbergen, Esq.) who had practised for many years the early cutting up of corn; his assurances were so positive as to the saving of labour, the security of the corn and the increase of feed for stock, that I determined to make the experiment this year upon a scale and in a way that would be! conclusive, and in a place that others would have an opportunity of judging of it as well as myself. With this view, I selected a field in the fork of a very public road—the field was nearly square. I divided it into two equal parts, as nearly as I could by the eye, and had all the corn cut and stacked by the middle of September from that part of the field lying on and nearest the two roads. This field had been planted early in April, but the corn came up so badly that it was re-planted in May. The entire crop was from the replanted corn. This circumstance, with an unusually dry season, the land not being thoroughly wet from the planting to the cutting up of the corn,) caused the crop to be very late. When it was cut, except those parts of the field which had heen manured, I thought the corn was rather green to make it safe to pull the folder. My maall stacked, we had three days rain. The opinion of all who saw the corn, was, that the crop was ruined. About the middle of October, my people began to use it for hogs, and from the 10th to the 15th of November, the remainder was pulled and quantity of long forage for stock, not as good pernaps, as well cured blades, but greater in quanticommon way. Upon a farm where two-fifths of the land is in clover, as much hay, (a better food for horses than fodder) can be made, as the horses of a farm can require. This course is recommended by a great saving of time at the busiest season of the year, except harvest. I am confi dent the corn can be cut and stacked in half the time that will be required to save the blades and tops in the present mode. In fodder getting, the great consumption of time is in passing over the field so often row by row .- In the old method, this is done at least five times; in the new, the corn is cut and stacked at two operations. The hauling where every thing is removed from the field as it should be, is the same in the new and the old method; but the great and decided recommendation of it is, that the land is better prepared, and the wheat sown in good time.

In the old method, about the middle of October

of the stack is more open, and the ears are not pressed upon each other as they are when every thing is stripped from the stalk but the ear. If the preparations of the corn land commenced as late as the middle of October, the works, from the hurried manner in which it is done, is badly executed-and the seeding unavoidably delayed to too late a period; whereas by having our fallows in order by the time fodder is ripe, the whole preparation for seeding may be completed by the time it will be safe to sow. The mere seeding when it is done with the harrow, as it should be upon well ploughed land, is quickly performed. These objects will be facilitated by planting a forward corn, that will ripen several weeks earlier than the corn which is generally cultivated. There is a difference of at least two weeks between a corn that is made by many of my neighbors in Albemarle, and considered a productive grain, (which has an unusually small red cob) and the common corn of our country. Mr. Richard Sampson and Mr. Thomas M. Randolph (Tuckahoe) two valuable members of our society, recommend highly a forward corn they cultivate, which I helieve was brought originally from the state of New-York. The practice above the mountains, is to cut eight rows and leave eight. When the field is gone over in this way, they return and cut the remainder, which is put on the outsides of the stacks first secured: by this management the interior of the stack is better cured than if it all was stacked at once. I did not however, pursue this method; my corn was all cut at once, and it was intended to let it take a day's sun on the ground, seventeen rows being put together, and the corn stacked upon the middle row of the seventeen. I recommend this practice with great confidence, but at the same time advise all those who are in the least skeptical to make the experiment upon a small scale—so that if they do not succeed, the loss will not be material. This caution will be observed by all prudent farmers, upon every occasion, where great changes are recommended to tuem. In the first experiment, let the quantity of corn, cut as early as I proposed, be confined to what will be sufficient for fattening the hogs raised on the farm, and what will be necessary fur consumption in the course of the fall. It will not escape an experienced farmer, that corn managed in this way, will be more secure from frost. The outsides of the stalks will cure quickly, and the inner be impervious to lrost.

The credit of this change in the management of corn, is due to the people of the South Branch of Potomac, who are as yet but little in the habit of making wheat, and derive no advantage from the culture of corn as a preparation for wheat. No circumstance can afford stronger evidence of the value of Agricultural Societies, than the lact, that in one part of this state a practice should have prevailed for more than thirty-live years, and be unknown to a vast majority of the people of Virginia, to whom it would be most useful. If I do not overrate its importance, there can be no doubt of its being of the greatest value to those who depend most upon their corn land for their wheat crops. Through this and other societies I flatter myself, there will be so rapid an interchange of information in future, that the benefit of an onprovement in one part of our country will be speedily communicated to every part of it.

W. C. MICHOLAS.

gentlemen must have been entirely satisfactory. They thus enjoyed, necessarily tend greatly to enhance both conformed my statement, that the grain was equally safe and good, and that the value of the forage was increased by the safe and good, and that the value of the forage was increased by the safe and good, and that the value of the forage was increased by the safe and good, and that the value of the forage was increased by the safe and good, and that the value of the forage was increased by the safe and good, and that the value of the forage was increased by the safe and good, and that the value of the forage was increased by the value of the safe and good, and that the value of the forage was increased by the safe and good, and that the value of the forage was increased by the value of the safe and good, and that the value of the forage was increased by the value of the safe and good, and that the value of the forage was increased by the safe and good, and that the value of the forage was increased by the value of the safe and good, and that the value of the forage was increased by the value of the safe and good, and that the value of the forage was increased by the value of the safe and good, and that the value of the safe and good, and that the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the value of the safe and good where the safe and good where the safe and good where the safe and good where the safe and good where the safe and good where the safe and good where the g ed, and a great saving of fabor.

#### AN ADDRESS,

To the "Maryland Agricultural Society" from the President, beyond the possibility of injury, employed, in theftured, but cut for the seed.

ROBERT SMITH, Esquire.

In this country agriculture ought to be consider-two other exhausting crops, wheat and oats. Un-clusively devoted to the scythe. ed. as the most honorable, as well as the most use-der these destructive crops, without any interven-ful of all the employments of man. It was so es-ing meliorating ones, our lands have been greatly as great, is, in addition to his crop, able, and, in Georgicks—a work, in which are to be found the imperfections, and to introduce a better system vice of every man who will adopt a similar system best precepts and rules of husbandry, recommend. How opus, hic labor est."

ed in a style and manner the most charming and In our advances towards improvement, the first

To the Pennsylvania rotation there may be made self throughout the whole country.

promote the introduction of the best animals, seeds, the farm, &c. &c. Every person, therefore, will adopting and pursuing a judicious rotation of crops, plants, and implements of husbandry. They extire a laudable emulation. And thus, in their efcumstances.

Every person, therefore, will adopting and pursuing a judicious rotation of crops, therefore, will adopting and pursuing a judicious rotation of crops, therefore, will adopting and pursuing a judicious rotation of crops, plants, and implements of husbandry. They extire a laudable emulation. And thus, in their efcumstances. fects, they necessarily tend to accelerate the pro | In the best cultivated parts of Pennsylvania, he divided into seven fields, viz: gress of agricultural knowledge. With a view to their farms are generally divided into five fields-1st year-Indian corn interspersed with as many these important advantages, this society has been and the rotation of crops adopted by them is as established.

In our estimate of the considerations, which ought to induce us to make an effort to restore fertility to the exhausted soil of Maryland, we cannot but duly appreciate its geographical and its other natural advantages. From its central position, exposed to the extremes of neither heat nor cold, we enjoy a most delightful climate. Without in indian corn, one in oats, one in wheat, one such exceptions, as are applicable to most coun-in clover and timothy for hay, and one in clover 7th year-Rye. tries, our lands were originally very fertile; and for pasturage. ley, clover, timethy, potatoes, turnips, and all culi-ply plaster of paris.

Lary vegetables, and also to apples, pears, peach. Their oat-stubble, with a view to the sowing of the practice of reserving it for the autumn. In the

Important, however, as are our natural advanta-harrow. ges, it is to be regretted, that they have not been. The whole of their wheat ground is in the spring duly cherished. Our ancestors, finding themsel-invariably sown with clover.

The whole country was reduced to the utmost disdry, not excelled in any part of the United States beap of stable manure.

It nevertheless must be admitted that our estates A proprietor of one of these farms, stating his quire the interposition of the government. To a have not, generally, been cultivated to the best average clear profits, assured me that all the work

vators of the soil. They combine with the experithis preliminary inquiry, no answer can be given improvement. rience of the field the experiments of the laborato that would suit universally. Much depends on Believing, as I do, that the lands of Maryland

follows, viz:

1st year-Indian corn

2d :: — Uats

3d :: -Wheat

4th :: -- Clover and Timothy for hay

When this paper was read to the Society, Mrdes, cherries and other fine fruits. The Chesapeake wheat thereon, they plough in immediately after Steinbergen, from Shenandoah, and Mr. Mackie from Har-dy, two highly respectable members of the Society, vouch-ed for the good effects of the practice I have recommended, from 30 years expecience. Upon the great points about shore, incalculable advantages in the transporta-which there could be any doubt, the testimony of these tion of their produce to market. And the facilities, sowing of wheat.

ves in possession of a soil rich, as they fancied, The second crop of clover is, by them, not pas-

outset, all their forces in the cultivation of tobacco. They have not, as was formerly their practice, and Indian corn. They afterwards superinduced particular pieces of ground, called meadows, ex-

teemed by the wisest, the richest, and the most injured; and, as a necessary consequence, our for-fact, is in the practice of selling every year a cerpowerful nations of antiquity. The Egyptians, the tunes have been much impaired. These gloomy tain number of beeves. By those he wes he is, Carthagenians, the Greeks and the Romans, as ap-observations however, are not applicable to all our morever, enabled to accumulate the requisite quanpears from all accounts, carried this all important landed estates .- From a personal knowledge of tity of manure. And it is a fact worthy of notice, art to a degree of perfection unknown to us. Atlmany, and from accurate information of the oth-that, notwithstanding the richness of his soil every one period, however, from a coincidence of pecu-or counties, I have the proud satisfaction of say-such farmer sows with wheat only as much ground liar circumstances, the lands of Italy were neglect-ing, that in every county of our state are to he as he is then able to manure well, and that the ed, as are, at this time, the lands of Maryland seen farms under a course of tillage, and husban-extent of his wheat field is ever regulated by his

distinguished personage, universally admired for advantage. But to what country, and especially was performed by himself and one bired laborer. his knowledge and beloved for his virtues, apply to what new country, may not this remark be ap II expressed my surprise that such an amount of cation was made for his best endeavours to rouse olied? Let us not, then, content ourselves in re-profits could proceed from the labors of two men. the people from their lethargy and to excite, in proaching the practices of times past. Let our Don't you see, said he, pointing to a number of them a passion for agriculture. The result of this views be prospective. Let every man endeavour heeves in a clover field, how hard those fellows are application, was the publication of the celebrated to the utmost of his puwer, to correct existing working for me?—Such co-adjutors are at the ser-

persuasive. Instantly was manifested a spirit of requisite is a disposition to attend carefully to the this objection, viz :- that three farinaceous crops, agricultural improvement, which soon diffused it-practices of agriculturists of long experience and corn, oats, and wheat, follow each other. The inof established reputation. In a comparative view jurious effects of such a succession, it may be in-Not having a Virgil to arouse us from our mor-lof the variously managed estates of our country, it ferred, reasoning a postereori, have been abundantbid indolence, our only practical expedient is the is observable, that, in every well conducted farm, ly obviated by the ploughing in of the oat-stubble, formation of well organised agricultural societies there is a systematical rotation of crops. It, thence and by the high manuring of their wheat ground. These institutions will, I trust, prove the salutary may be assumed, as a postulate, that no farm can At all events, the Pennsylvanians cannot but be means of averting the impending calamities. Such be profitably conducted without such a regular rotenacious of their present system, as their farms, associations afford opportunities of comparing the ration. The question, then, which presents itself under it, exhibit no marks of deterioration, but inoltifarious practices of the most judicious culti-t the threshold, is, which rotation is the best? To on the contrary, every indication of progressive

ry. They furnish facilities, not only for acquir-circumstances, viz: the climate, the soil, the dis-cannot be reclaimed, and of course that the foring, but for diffusing useful information. They tance from the market, the size, the character of tunes of our farmers cannot be improved, but by tion another system, under which a farm would

pumpkins and beans as can grow to advantage and the head lands in buck-wheat.

2.1 year--Swedish turnips in drills, or part in Swedish turnips and part in potatoes.

3d year-Spring Barley, or oats, or buth.

4th year-Wheat.

5th :: -Do do for pasturage. 5th year-Clover and Timothy for bay.
In viewing every such farm, five fields are seen: 6th year-Clover and Timothy for pasturage, or to be cut for soiling.

As Indian corn is a hungry feeder; as for it mathey are, at this time, susceptible, not only of rest For their wheat ground they are in the habit of nure cannot be too coarse or too abundant, it is re-

toration, but of the highest degree of improvement reserving all their stable manure made during the commended that the manure of the firm yard made Our climate and soil are remarkably lavorable to preceding winter.

the growth of wheat, Indian corn, rye, oats, bar

To their Indian corn, oats and clover they appring, applied to the corn field, and be well cover-

the winds, and the rains during the whole sammor, and is, oreover, during all that time, altogether inoperative. In the former case it is pro-Indian corn, under this practice, has, to my knowledge, been extremely luxuriant. But in sowing oats, the ensuing spring, upon such corn fields, there has been every year a mortifying disappointbe too rich for oats, and was, moreover, crowded with multitudes of weeds. The experience of those vexatious evils has suggested the idea of an of the ground, as well as to the obtaining of valuable routs, that delight in a rich soil.

This proposed rotation of crops would tend to clean, as well as to improve ground. It would, it is believed, eventually cradicate even garlic it-immediately in the seed-bods, and you may continue to self. It would, moreover, furnish the great desideratum, a regular supply of both summer and cessity, yet very few will vegetate then. winter food for all kinds of stock.

In undertaking to reclaim an exhausted farm there will be experienced no serious difficulties but in the beginning. And these difficulties will proceed altogether from the deficiency of winter and summer food for the maintenance of the stock necessary to produce the requisite manure. Etfectual measures, then, must, in the outset, be taken to provide clover or other artificial grasses, for hav in winter and for pasturage or for soiling in summer, and also a plentiful supply of pump-four. kins and Swedish turnips for food during the autumn, winter and spring months.

Stable manure is confessedly an essential, in-dispensable article. Without it the farmer labours in vain. To obtain it he must have a competent number of neat cattle and other stock. And to maintain such a stock he must have an adequate supply of summer and winter food. It hence results, that no rotation of crops can produce the desired effect, unless it ensure a competent supply of winter and summer food for the maintenance of such neat cattle and other stock. as may be sufficient to make all the manure ne cessary for the progressive improvement of the farm.

3 OU: OO 2

From the Practical American Gardener, published by Fielding Lucas, jun.

# For the month of August.

[See page 168.]

General Observations.

All kinds of seedling trees and shrubs, must now be kept perfectly clear from weeds; in dry weather, be careful to water them frequently, whether in beds, boxes or pots.

Hoe the ground well between the rows of trees; and train up the various sorts of forest trees and shrubs ; but state. leave some small shoots to detain the sap, for the strengthening of those parts.

Towards the end of this month prepare the ground for autumn planting, and begin to clear and trench those vacant places, where you intend to pla it trees or shrubs of way. a 1y kind in October or November, &c.

If the land be of a stiff nature, l.y. it up in high sloping ridges, by exposing m re surface to the sun, rain, and ridges, by exposing m re surface to the sun, rain, and crown imperials, fritillaries, and lilies, or of any other the plants dews, which will grealy improve it, and it can by this kinds of bulbs, whose seeds are ripe, may now be sown, means, be the more expeditiously levelled down, and rendered in a condition at for planting when necessary.

Budding or Inoculating.

rines, almonds, apples, and pears, also apricots on peach a full year after.

latter case it is exposed to the injuries of the sun, for almond stalks; but when the aprient is to be budded! on the plain, it ought to be done in July.

Pears and apples must be inoculated carly in the month, tected from those injuries, and, at the same time, while the san flows freely; but he peach, nectarine, and young and vigorous.

ment. The ground in every instance, proved to bark will not pa t freely, it will be fruitless to attempt it. place the boxes in the shade, but not under trees, and in Many sorts now have a second growth, and when that is dry weather, give them a very small portion of water. the case, it will answer to bud them.

Newly Budded Trees.

Carefully examine the stocks, which were budded in intervening crop of Swedish turnips in drills, or June and July, loosen the bandages, and where any turnips and patatoes, with a view to the clearing shoots are produced below the buds, rub them off; cut or grafts.

Preserve Stones of Fruit.

Peach, plum, apricot, and cherry stones should be carefully collected, to plant for raising stocks. Plant them collect and plant, till the ground is frozen; for although it will answer to plant them in the spring, in case of ne-

Carnations and Pinks. Transplant the layers and pipings of carnations and pinks, which are sufficiently reoted, and treat them as

Auriculas and Polyanthuses.

Such of the enoice auriculas, as were not put into new pots in April and May, may now be so transplanted.

You may take off any strong slips, that have fibres attached to them, and plant them as there directed. All the auriculas will require at this season, to be a reened from t e mid-day sun, but have the benefit of the morning sun till nine o'clock, and that of the afternoon after

Polyanthuses require similar attention as the aurieulas

Transplant the seedlings of both, as directed for auriculas seeding in April.

Transplanting Seedlings, Biennials and Perennials. Transplant into nursery beds, the young plants of the varions kinds of biennial and perconial flowers, that are of a proper size, or they may be planted, where they are finally to remain. The wall flower and stock gil iflower, each tree, when it puts forth its first autumn shoots; will attend to directions before given.

Removing Paonias, Flag Irises.

When the roots are taken up, the small offsets should be plied.

The separated and planted in beds for an increase; the large to be planted from three to four inches deep.

Propagating Fibrous Rooted Perennial Plants.

Most of the early flowering fibrous rooted plants, whose flower stems were directed to be cut down in June or July, will, in the course of the month, send forth new four weeks. suckers from the roots; such may be carefully taken off, and planted in nursery beds, or the whole roots may, towards the end of the month, be taken up, and divided into many plants, taking care that each one be furnished with roots. Trim them neatly before planning, and set them in a shady border, where they can be covered with mats, &c. till rooted. Water them immediately, and repeat it occasionally, till they are in a full growing summer shoots, and before they begin to push their au-

Pinks, sweet-williams, rose campoin, scarlet lychnises, primroses, double daisies, double perennial catch fly, phloxes, campanulas, violets, dracocephalums, and various other kinds may new be propagated in this have it loosened, taken out, and some compost added;

in order to obtain new varieties. These, if sown as soon, after being r pe, as they are sufficiently dry and hardened, will vegetate the ensuing spring, but if kept out of consumption of each; always administering is spacingly It will answer at this season, to bud peaches, necta- the ground till spring, very few of them will come up for to succeivent kinds

Sow the seeds separately in boxes filled with good garden mould, till within two or three inches of the top, Cherries, plums, or any a her fruit trees, may be bud-which should be of compost—as before directed in No. ded this a act, if the bark parts freely from the stock.— I. Shrubbery, or that in Flower Garden.—Sow the see is 1, Shrubbery, or that in Flower Garden. Sow the see is hick, and cover them with compost about half an inch The depth of earth in the box, should be at least is operative in greatly augmenting a valuable crop, almond, will succeed any time between the first of Au one foot; the bottoms of the boxes perforated with holes gust and twentieth of September, provided the stocks are each about an inch in diameter, and covered with shells, to allow the extra moisture to pass off. The boxes to be You may now inoculate all such curious trees and placed in a warm situation, kept free from weeds, and shribs as you wish to propagate in that way, almost all protected from frost by a slight covering of mats, till the will succeed, if budded on suitable stocks; but when the spring when the plants will appear. Early in May, In June, when the leaves are decayed, sift half an inch of earth over that in the hoxes, and on the approach of winter, protect them from frost as before. Continue the same treatment, winter and summer, till the month of shoots are produced below the buds, rub them off; cut off all shoots, which are produced below the inoculation of all shoots, which are produced below the inoculation of the state of the A few of the strongest roots will flower the fourth year, about one half may flower the fifth, and in the sixth year, every healthy root will bloom. In this method, all the curious varieties are raised, and if one valuable new flower is produced from hundreds thus propagated, the florist exults.

Plants in Pots.

Such plants as are in pots, require to be watered frequently; some kinds requiring it twice a day, in very dry weather, others once a day; a few sorts not so often -There is a surprising difference in the constitution of plants, with respect to the consumption of water, some absorbing and discharging it quickly, others very slow; you must therefore be governed by circumstances, in your sopplying them with water. General Observations.

Give water as often as necessary, to all the young plantations of herbaceous flower roots; cut down the stems of such as are past bloom; loosen the earth in the

tops of all the pots, containing flewering plants; trun and tie up any loos- or straggling plants.

Gather flower seeds as they ripen, and preserve them till the season of sowing; most kinds will keep better in their pods or husks, than when rubbed out.

Propagating Plants.

You may continue to propagate the plants, by cuttings, ayers, and suckers, as directed in former months.

Budding O anges, Lemons, &c.

Any time this mouth, oranges, lemons, citrons, &c. in the middle states requiring protection in winter, you some trees even the same species will shoot earlier than others, and as soon as a few of them are grown to two or three inches in length, choose that time to bud them, This month take up, separate and transplant the roots as the sap is then in a fresh state of circulation, the of panias, flag ir ses, or any other hardy kinds of tube bark of the stock will separate freely for the admission rous rooted flowers, whose leaves are now decayed, of the bud, and the necessary nourishment will be sup-

The buds must be taken from shoots produced in the roots re-plan ed where designed to flower. Each kind carly part of the present season. The most snitable stocks are those raised from the kernels of either of the species. For the method of budding, see as before di-

After hudding, place them in the shade, for three or

Cut off oranges, lemons, jasmins and other exoticks, which were inarched in April or May, provided they are sufficiently united.

Shifting and giving fresh Earth to the Plants.

The critical period for the sentiner suiting into large pots, such of the green house plants, as are too much confined, is after they have perfected their spring or tumn growth; this is generally to be done in the first week of this mouth. Perform this operation as before directed.

Such pots, in which the earth is hard or stiff, must pick off any decayed leaves, and trim disorderly Seeds of Bulbous Rooted Flowers.

The seeds of tulips, hyacynths, narcissuses, irises, to the collection, as also promote the vigorous growth of

Water the Plants.

arefully attend to the watering of all the plants, giving it as often as neces ary; and in proportion to the

Water should be poured occasionally through the hose

kinds, which will wash the dust off from the leaves, and five dollars; and there they were upon the spot piece was near a wood, and there was a great quantity

## EARTH BURNING.

Several of our subscribers have reminded us of a promise we made in a preceding number, to publish in the . Imerican Farmer, such observations as we should meet with in the course of our reading, on Earth Burning, to make manure .- Having in a great measure disposed of original communications, we have embodied in this WM. GAUNTLETT, of Winchester, late a com- and much better in quality, if they had remained in the number, what has appeared to us most explicit and samissary with the army in Spain. To this gentle- ground until now. The piece was seventy paces long tisfactory on the subject. There is no doubt, as well from the manifest reason of the thing itself, as from the concurrent testimony of those who have proved its utility, that the burning of earth of a particular kind, under many circumstances, is highly to be recommended, not only as a means of reducing the sod, and by that means effectually cleaning rough land; but also as a resource for obtaining a species of manure, highly favorable to the growth of certain vegetables. Our readers may judge, therefore, for themselves, on what kind of land this operation may be most advantageously applied, and under what circumstances, it is most advisable to have recourse to it; and to what species of crop it is likely to be most propitious in its effects. We here submit from all we have seen, what seems to be most worthy of attention; and first we copy from "Cobbett's killed, twenty seven score, according to our Hamp-year's residence in the United States" all that he has shire mode of stating hog meet weight; or, five there said as to Earth Burning.

used in general, it may be the same as for a sowing of Rye, or of Wheat. I should prefer ashe- : but, my large crops in England, were on yard surpassed it. dung, first, thrown into a heap, and afterwards turned once or twice, in the usual manno as prac- in my next part of this work. Nothing is easier tised in En land. At Hyde Park I h d nothing of performance, and the materials are every where but rakings up, about the yard, barn. &c. as de- to be found. scribed before. What I should do, and what I | I have spoken of a mode of procuring manuve shall do this year, is, to make ashes out of dirt, or (as you can see above) by the burning of earth, of a house In this state they remain till they are dry earth, of any sort, not very stony. Nothing is so and I proposed to try it this present year. This easy as this, especially in this fine climate. I see I have now done, and I proceed to give an ac people go with their wagons five miles for Soaper's count of the result. ashes; that is to say spent ashes, which they pur-chase at the landing place, for they come to the bages, Sweedish Turnips, Indian Corn and Buck-Island in vessels) at the rate of about five dollars wheat. In the three former cases, the ashes were for forty hushels. Add the expence of land car- put into the furrow and the earth was turned over riage and the forty bushels do not cost less than them, in the same way that I have described ten dollars. I am or opinion, that, by the burning above,—With regard to the manure for Savoys. of earth, as much manure may be got upon the I put at the rate of about twenty tons weight to an land for half a dollar. I made an experiment last acre. In the case of the Buckwheat, the ashes summer, which convinces me, that, if the spent were spread out of the wagon upon a little strip ashes, be received as a gift at 3 miles distant of a land on the outside of the piece. They were land-carriage, they are not a gift worth accepting thickty spread; and it might be, that the proporof. But, this experiment was upon a small scale; toon exceeded even thirty tons to the acre. But, and therefore I will not now speak positively on inpon the part where the asies were spread, the the subject.

these ashes. I have just ploughed up a piece of It bore buckwheat last year, without any manure. ground, in which, a few years ago. Indian Corn It had two good ploughings then, and it had two was planted, and produced, as I am assured, only good ploughings again this year, but had no mastacks; and those not more than two feet high. The ground has, every year since, borne a crop of weeds, rough grass, and briers or brambles. The piece is about ten acres. I intend to have Indian Corn in it, and, my manure shall be made on the spot, and consist of nothing but burnt earth. If I have a decent crop of Indian Corn on this land. so manured, it will I think pozzle my good from a distance, the two former are certainty to be em-

"Whether I succeed or not, I will give an aceach load holding about lorty bushels. I should A near neighbour of mine, Mr. Dayrea, sowed a piece those books, which pedants call "classical," and which

refresh them greatly; this should be done in the even ing, near sun-setting.

In the very field, where they were used. As to a grassy description. These he burnt into ing, near sun-setting.

In the very field, where they were used. As to ashes, which ashes he spread over one half of the piece, while he put Snaper's ashes over the other part of the full as great an effect as the yard-dung used in visible difference in the two parts, whether as to the into ashes, without suffering the smoke to escape. during any part of the process, is a discovery of man Lalso owe, England owes, and I hope America will owe, the best sort of hogs, that, I believe are in the world. I was wholly unacquainted with Mr GAUNTLETT, 'till the summer of my hogs, cows, &cc. and, when he came to my house he called, and told me, that he had observed, that I wanted only a good sort of hogs to make fine breed, the father of which, with legs not more killed, twenty seven score, according to our Hamphundred and forty pounds. This breed has been The one is in heaps upon the ground, and the other fashioned by Mr. Woods, of Woodmancot, in Sus-As to the quantity and sort of manure to be sex, who has been, I believe, more than twenty years about it. I thought it perfection itself; ait I was obliged to confess that Mr. Gauntlett's

"Of the earth burning I will give an account

buckwheat was three or four times as good as up-I am now, preparing to make a perfect trial of on the land adjoining. The land was very poor. nure, except the part above mentioned and one other part at a great distance from it. So that the trial was very fair indeed.

In every instance, the ashes produced great effect; and fam now quite certain, that any crop may be raised with the help of this manure; that is to say, any sorr of crop; for of dung, wood ashes, and earth ashes, when always been followed, until within a century, by the all are ready upon the spot, without purchase or carting neighbours to give a good reason for their going played in preference to the latter, because a smaller five miles for spent ashes. course, the application of them is less expensive. But, count of my experiment. This I know, that I, in in taking to a farm unprovided with the two former; the year 1815, burnt ashes, in one heap to the a-to the land under curtivation, who can be so conveni-

of a wate ing pot, over the branches of the shrubby and suppose that the burning cost me more than of Swedish Turnipa, broad-cast in June, this year. The Baga and Mangle Wurtzle, and they produced piece. I saw the Turnips in October, and there was no the same land. This process of burning earth vigorousness of the plants or the bulk of the Turnips. They were sown broad east and stood unevenly upon the ground. They were harvested a month ago, (it is during any part of the process, is a discovery of now 26th of November,) which was a month too early. Irish origin. It was pointed out to me by Mr. They would have been a third at least more in bulk, and seven paces wide; and the reader will find, that, as the piece produced forty bushels, this was at the rate of four hundred bushels to the acre.

What quantity of earth-ashes were spread on this piece it is impossible to ascertain with precision, but I 1815, when happening to pass by my farm, he saw shall suppose the quantity to have been very large inleed in proportion to the surface of the land. Let it be four times the quantity of the Scaper's Ashes. Still, the one was made upon the spot, at, perhaps, a tenth part of the cost of the other; and, as such ashes can be made ay stock complete. I thought that I already had upon any farm, there can be no reason for not trying the finest in England; and I certainly had a very the thing, at any rate, and which trying may be effected upon so small a scale as not to exceed in expence a half than about six inches long, weighed when he was of a dollar, 1 presume, that many farmers will try this method of obtaining manure; and, therefore, t will describe how the burning is effected.

There are two ways of producing ashes from earth. within walls of turf or earth. The first, indeed, is the usual way of burning of turf or peut. But, let us see how

it is done.

The surface of the land is taken off to a depth of two or three inches, and turned the earth side uppermost to dry. The land, of course, is covered with grass or earth, or something, the roots of which hold it together. and which makes the part taken off take the name of turf In England, this operation is performed with a turf-cutter, and by hand. The turfs are then taken, or a part of them, at least, and placed on their edges, leaning against each other, like the two sides of the roof enough to burn. Then the burning is begun in this way. A little straw and some dry sticks; or any thing that will make a trifling fire, is lighted. Some little bits of the turf is put to this. When the turf is on fire, more b ts are carefully put round against the openings whence the smoke issues. In the course of a day or two the heap grows large. The burning keeps working on the uside, though there never appears any blaze. Thus the fi ld is studil d with heaps. After the first fire is got to be of considerable bulk, no straw is wanted for other lieaps because a good shovel full of fire can be carried to light other heaps, and so on, until the heaps are lighted. Then the workman goes from beap to heap, and carries the turl to all, by degrees, putting some on each heap every day or two, until all the field be burned. He takes care to keep in the smoke as much as possible.-When all the turf is put on, the field is left; and, in a week or two, whether it rain or not, the heaps are ashes instead of earth. The ashes are afterwards spread upon the ground; the ground is ploughed and sowed, and this is regarded as the very best preparation for a crop of Turnips This is called "paring and burning." It was introdu-

ced into England, by the Romans and it is strongly recommended in the First Georgic of Virgil, in, as Mr. Tutt shows, very fine poetry, very bad philosophy, and still worse logic. It gives three or four crops even upon poor land, but it ruins the land for an age. Hence it is that tenants in England are, in many cases, restrained from paring and burning, especially toward the close of their leases. It is the Roman husbandry, which has French and English. It is implicitly followed in France to this day; as it is by the great mass of common farmers in England. All the foolish country sayings about Friday being an unlucky day to begin any thing f.esh upon; about the noise of geese for boding bad weather; out the signs of the stars; about the influence of the noon on animals: these, and scores of others, equally adiculous and equally injurious to true philosophy and nre taught to "young gentlemen" at the universities and grossest parts of the smoke. That which flies out of the academies. Hence, too, the foolish notions of sailors chimney is the best part of all.

about Friday, which notions very often retard the opeharvest from Thursday to Saturday, in order to avoid square is the best figure. About ten feet wide, because Friday. The stars save hundreds of thousands of then a mon can fling the earth easily over every part age as the operation would otherwise be performed up \(\llowood\), is to make a sort of building in the kiln with turfs on them. These heathen notions still prevail even in and leave air holes at the corners of the walls, till the America, as far as relates to this matter. A neighbour fire be well begun: but this is tedious work; and is in of mine in Long-Island, who was to operate on some this country wholly unnecessary. Care must however, just then, as unfavourable as possible. I begged him to so that a body of earth on fire may be obtained, hefore proceed, for that I set all stars at defiance. He very it be too heavily loaded proceed, for that I set all small at definite the first price to heavy leading completed, having got the quanti-pig and lamb did well—the was surprised when I told ty you want, let the kiln remain: the fire will continue priesteraft, but of heathen priesteraft, cherished by priests sooner, open the kiln; they will be cold enough to reof a more modern date, because it tended to bewilder move in a week. wholly thrown away.

I make no apology for this digression; for, if it have which it occupies will have been well bestowed.

To return to paring and burning; the reader will se with what case it might be done in America, where the sun would do more than half the work. Besides the paring might be done with the plough. A sharp shear, going shallow, would do the thing perfectly well. Cutting across would make the land into turfs.

So much for paring and burning. But what I recommend is, not to burn the land which is to be cultivated, but other earth, for the purpose of getting ashes to be brought on the land And this operation, I thus perform. I make a circle, or an oblong square. I cut seds and build a wall all round three feet thick, and four feet high. I then light a fire in the middle with straw, dry, sticks, boughs, or such like matter. I go on making this fire larger and larger, till it extend over the whole bottom of the pit, or kiln. I put on roots of trees or any rubbish wood, till there be a good thickness of strong coals. I then put on the driest of the clods that I have ploughed up round about, so as to cover all the fire over. The earth thus put in will burn. You will see the smoke coming out at little places here and there. Put more clods wherever the smoke appears. Keep on thus for a day or two. By this time a great mass of fire will be other with rs. in the inside. And now you may dig out the clay, or earth, any where round the kiln, and fling it on without ceremony, always taking care to keep in the smoke; for, if you suffer that to continue coming out at any one place, a hole will soon be made; the main force of the fire will draw to that hole; a blaze, like that of a volcano, will come out, and the fire will be extinguished.

A very good way, is to put your finger into the top of the heap here and there; and if you find the fire very near, throw on more earth. Not too much at a time, for that weighs too heavily on the fire, and keeps it back; and, at first will put it partially out. You keep on thus augmenting the kiln, till you get to the top of the walls, go on. No rain will affect the fire, when once it be comes strong.

The principle is to keep out air, whether at the top or the sides, and this you are sure to do, if you keep in the smoke. I burnt, this last summer, about thirty wagon loads in one round kiln, and never saw the smoke at all so largely from it, much as we are pleased to hold up after the first four days. I put in my finger to try whether the fire was near the top; and when I found it appears no individuals in the whole circle of society, to proaching, I put on more earth. Never was a kiln more completely burnt.

preferable to the above ground burning in heaps. Because more powerful than ashes, and soot is composed of the tien and support.

another rations of commerce. I have known many a farmer, fire, the fire may be lighted precisely as in the case of Friend Skinner, when his wheat was dead ripe, put off the beginning of paring and burning. If the kiln be large, the oblong As you Editor lambs and pigs from sexual degradation at so early an The mode they pursue in England, when there is no lars, and tell us l'armers how we are to practice it. As pigs and lumbs for me, begged me to put the thing off for be taken, that the fire be well lighted. The matter put a while, for that the Amount told him, that the signs were in at first should be such as is of the lightest description; it takes two, at least to make a bargain," and I find

track of detecting the cheatery of priests, the room or more. At this time in my own neighbourhood, in Hampshire, peat is burnt in large quantities, for the ashes, which are sold, I believe as high as six-pence sterling a hushel, and carried to a distance of even twenty miles in some cases.

Nevertheless it is certain, that these ashes are not equally potent upon every sort of soil. We do not use them much at Botley, though upon the spot. They are carried away to the higher and poorer lands, where they are sown by hand upon clover and sain foin. An extried them in various ways, and never found them to over, require a bushel soon, for the same purpose. bave any effect. So say the farmers near Botley. But, there is no harm in making a trial. It is done with a more nothing of expence A yard square in a garden is quite sufficient for the experiment.

Huwever, let it be borne in mind, that the proportion pence is so trifling?

# THE FARMER.

BALTIMORE, FRIDAY, JULY 23, 1819.

### THE WIFE.

"A Wife," from the first number of Geoffrey Crayon, a and then you may, if you like, raise the walls, and still new work by Mr. Erving, we are perhaps taking an unwarrantable liberty with the holder of the copy right. It is, however, apprehended, that it may serve to aid, rather than circumscribe the circulation of the work, otherwise we should not have taken the freedom to copy are no individuals in the whole circle of society, to whom the hardness of the times makes a more force-Now, this may be done on the skirt of any wood, able appeal, than to the wives of our bosoms, the mo- wheat, from Cocil, sold on the 20th inst. for \$1-25-where the matters are all at hand. This mode is fat there of our children, our partners in deficulties and white corn, 59 cents. thers of our children, our partners in difficulties and white corn, 50 cents, preferable to the abore ground burning in heaps. Because in the next place, the smoke escapes there, which is the privations.—It is in their fortitude and resignation, in a since our last report of them, nor is there any material est part of the burnt matter. Soot, we know well, is great degree, that the husband must look for consola- difference in the price of any other production reported

#### COMMUNICATION.

As you Editors are knowing men, and have recommended economy as an effectual remedy for the distress ses of the times; I will thank you to descend to partiefar as depends on myself, I do very well .- You have no notion how much I save by sitting in the dark of an evening; drinking rye coffee; and using molasses instead of sugar. But, where others are concerned, I do not that he is more than half right. I am baulked in my schemes of economy, by my tradesmen, Mr. Saip, Mr. Crispin and Mr. Raccoon, who still demand war prices for articles in their line. A few weeks ago, finding "the him that this mysterious matter was not only a but of to work, until all is ashes. If you want to use the ashes devil to pay among the tailors" in your renowned city, I thought it would be a good time to get a new coat, the one I have not being able to bear another turning; so I of a more modern date, because it tended to be modern a week.

Some persons have peat, or bog earth. This may be called on Mr. Snip, and by way of putting him in a good "Whot a thing it is," said I, "that a clear practised upburnt like common earth, in kilns, or dry as in the particular to the particular to be an another entring, so I was a subjection.

Some persons have peat, or bog earth. This may be called on Mr. Snip, and by way of putting him in a good humour, rubbed out all old scores, but, would you believe the peat should be cat it he had the conscience to ask me \$42.50 for one, not-"ago, should, by Almonac-Makers, be practised upon a out in the shape of bricks, or, as much longer and bigger withstanding the late rebellion of the journeymen, so I sensible farmer in America!" If priests, instead of as you find convenient, and set up to dry in the same have to wear the old coat, still. Why, sir, the wool of preaching so much about mysteries, were to explain to, way that bricks are set to dry previous to the burning forty merinoes, (which by the bye, is twenty more than their hearers the origin of cheats like this, one might be This is the only fuel for houses in some parts of England.) I have would not pay him for a suit of broadcloth at ready to allow that the wages paid to them were not I myself was nursed and brought up without ever seeing this rate; and it will take the carcasses, as well as wool, any sort of fire. The ashes used, in those times, to be of nine of my fat lambs, to buy me a hat and a pair of sold for four pence sterling a bushel, and were frequently half boots, articles that I must use, whether I am cura tendency to set the minds of only a few persons on the carried, after the purchase, to a distance of ten miles, tailed at Bank or not, and then, (having no relations to quarter on in town,) when I go up to sell my crap or to meet the Agricultural Society. I am under the necessity of visiting "mme Host of the Garter," where I make nothing of devouring a whole pig for dinner, a sheep a day, or "taking the log round," sixteen pounds of bacon; half a bushel of white wheat, buys me half a pint (so called) of wine; a hushel of corn, half a pint of whiskey; while a bushel of oats, with the aid of five eents in eash, pays for a night's lodging. For a pound of butter, I get my shoes blacked twice, and for a peck eellent farmer, in this Island, assures me that he has of new polatoes, I get three drinks of grog; it will how-

As the good old times of barter and exchange appear to be coming round, it may be well for you to give your worthy readers, who are not generally great calcula-tors, some information on this head; for instance how With respect to earth-ashes, burnt in kilns, keeping much flour they ought to bring for a week's expences: in the smoke, I have proved their great good effect; but, at present, I should suppose, that a strong Montgomerystill I would recommend trying them upon a small scale. team, would take enough to last, with good management, a fortnight; sixty bushels of wheat, or a score and a to the aere ought to be large. Thirty good tons to an half of pretty good sheep, might answer the same end. aere; and why may it not be such, seeing that the ex- If you should think it more adviseable, you might recommend an assorted cargo, according to the demand. As This subject, will hereafter be continued, from the stage fare from Washington to Baltimore, has got dawn to \$5, which I can pay with ten bushels of eorn, you may soon expect to see me. Your friend.

Montgomery, July 20, 1819.

CORNPLANTER.

The Virginia Agricultural Society, of which Mr. Madison is the President, have eclipsed the whole and exceeded all other examples in any age or country—they have, it is said, promulgated to pay four years hence, 10,000 dollars for the best farm in that State, not less In giving our readers the exquisitely fine picture of than 500 acres; 5,000 dollars for the next-2,000 dollars for the third best-the latter not less than 200 and 100 acres. N. H. Patriot.

> Current Prices of Country Produce-ascertained by actual sales-within the last week.

Tobacco-has rather declined since last week -fine wagon Tohacco sold yesterday, for \$14 and some tobacco from Calvert County, for Sand \$10-we could hear of no sales of Virginia tohacco for some considerable time past--Wher . A few hundred bushels of red

The staple articles of North Carolina have not varied in the last number of the American Farmer.

# PRICES CUERENT

#### AT BALTIMORE:

### Carefully Revised and Corrected every Thursday.

Carefully Revised and Corrected	ever	y Inu	rsaay.	١,
ARTICLES.	r E.K.	RETAIL	PRICES	ľ
2221, 1.11	tidi	15		1
No 1 wholesale.		13		L
No 2 )	ıb.	16	ł	ľ
Butter, Ferkin, wholesale		18		٤
Coffee, first quality,		33		ľ
second do		27	28	1
Cotton, Twist, No. 5,		45		ı
No. 6 a 10,	'	46		3
No. 11 α 20,		53		1
No. 20 a 30, - Chocolate, No. 1,		80 33	1 20	1
No. 2, -		28		ľ
No. 3,		25		(
	box	20 18	22 19	1
dipt,   spermaceti, -			scarce	ľ
	lb.	10	15	
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	qtl.   bbl.		retail	ß
mackarel, No. 1 a 3		6	9	þ
shad, trimmed, -		7 75	1	١
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	lb.	do		ľ
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Leather, soal, Molasses, Liavana,	gal.	62 1-2	1	13
New Orleans, -		75		ľ
sugar house,	wo l	1 50		15
Oil, spermaceti, PORK, mess or 1st quality, -	gal. bbl.	18 a	20	1
prime 2d do		16 a	17	þ
cargo 3d do	ton	14 a	15	L
Plaster, ground	bbl.	1 75		ľ
Rice,	lb.	6		ŀ
Spirits, Brandy, French, 4th proof	gal.	2 1 25	3	l
peach, 4th proof apple, 1st proof		75		i,
Gin, Holland, 1st proof		I 50	1	ŀ
do. 4th proof		50	60	ŀ
do. N. England Rum, Jamaica,		1 50		l
American, 1st proof		75	d	1
Whiskey, 1st proof Soar American, white,	lb.	35 19		
do. brown, -	1.5.	9		
Sugars, Havana, white	Ī	19	ıl .	1
brown, N. Orleans, - loaf,		12 25	13	1
lump,	lb.	20		
Salt, St. Ubes,	bu .	70		I
Liverpool, ground, Shot, all sizes,	lb.	75 12	1	1
TOBACCO, Virginia fat,	cwt.		1	I
do. middlings,		6 50		1
Rappahannock, Kentucky,	}	6 50	5 50 7 50	
small twist, manufactured,	łь.	25	37	l
pound do		50		ł
TEAS, Bohea, Souchong,	lb.	63		١
Hyson Skin		75	a 15υ	1
Young Hyson,		1 25	1	1
Imperial,		1 75		1
unwashed, -		40	)	I
crossed clean, unwashed, -		65		Ì
common country, clean,		33		1
unwashed	1	25	5	1
skinner's,	1	1 33	<b>\$</b> 1	1

### RATES OF EXCHANGE.

OF BANK BILLS.

Corrected monthly for the American	
Branches of the U. States' Bank not paya- able at Baltimorc. Boston Banks	
NEW-YORK.	par
City Banks	par
State Bank Camden	par
Frenton, Newark, and Brunswick,	i dis.
Mount Holly Bridgetown, &c. PENNSYLVANIA.	1 do.
Philadelphia,	par a a3-4
Stephen Girard's Bank,	nar a do.
Chester, Easton, Harrisburg, Mootgomery, } Hulmeville, Germantown,	1 dis.
Carlisle Bank, Chambersburg, Gettysburg, 1	1 1-2 a 2 de
York, Lancaster, and Columbia Bridge, §	nominal.
Carlisle, (Agricultural) Bank of Pittsburg,	6a7 1-2 dis
Westmoreland, Bedford, Brownsville, )	nominal.
Meadville, Centre, Huntingdon, Milton	
Bank of Delaware,	1 a 1 I-2
Wilmington and Brandywine,	1 a 1 1-2
State Bank at Dover, and Branches, Laurel.	1 α 1 1-2 50 dull
Smyrna and Milford,	8
DISTRICT OF COLUMBIA.	U
C	l dis.
Alexandria Banks, (excepting the Me-)	1 do
Mechanics of Alexandria, Franklin of Alexandria,	20 50
VIR GINTA.	
Bank of Virginia, Farmers' Bank, and	} 1 1-2
Branches, Unchartered banks, various	7 1-2 a 25
Saline and Parkersburg	no sale
NORTH CAROLINA.	110 3310
State Bank and branches	6 1-2 do
Newbern and Cape Fear	7 1-2 dis
SOUTH CAROLINA AND GEORGIA, Bank Bills	2 1 a 3
OHIO.	2943
Chillicothe, Marietta, Muskingum, Urban. )	
na, Stubenville, &c.	15 a 25*
na, Stubenville, &c. Mount Pleasant, Montpelier, New Lisbon, St. Clairsville, &c.	10 4 20
St. Clairsville, &c.  The above are the present rates; bef	ore our nev
report, they may vary generally 1.2 a 1 per	cent excen
those marked thus *, which are more fluctu	atiog.
·	-

#### A PLEASANT PROSPECT.

' Safe landed in London, young gentleman, say, What means you will practice for pushing your way?" ·Pil take to the robe: with my Latin and lungs, Soon Garrow and Erskine shall bridle their tongues.' · Hetter take to the road. There's both Lackwit & Lean In a term scarce get sixpence to keep their bands clean 'I've a talent for verse, and I'll give it free scope: You'll no longer be partial to Pindar and Pope.' · Do you envy those shadows, in shabby great coats? Our Popes and our Pindars are all sans culottes. 'I'll worship at court." A mere lottery at best: Bote succeeded, and indeed, but he starved all the rest.' · Advise then dear friend for I live here I vow.' 'If you're good you may live, but God only knows how

#### EPITAPH ON A WATCH MAKER.

Thy movements, Isaac kept in play, Thy wheels of life felt no decay For fifty years at least; Till by some sudden, secret stroke, The balance or the main spring broke, And all thy movements ceas'd.

QUINN:

" Pray Mr. Quinn," said a lady. "did you ever make love?" " No, my Lady," replied Sir John lisute, "I always buy it ready made."

#### A TOAST.

A Lord Mayor of York asked a tradesman at his table for a toast: the honest man did not understand what he meant. On its being explained to him, he gave his own wife. By and by, when be grew merry, the Lord Mayor asked him, in his turn for a demircip; "Faith," says the tradesman, "I will give you my own wife again."

#### A CERTAIN REMEDY.

Colonel - shot himself, and left a paper on the table expressing that he was grown weary of life, and tired of buttoning and unbuttoning, adding this verse:
"The very best remedy after all,

. Is a good resolution and a ball,

#### REASONS FOR PREFERRING A THIN WOMAN.

- fell in love with a remarkably thin Mr. woman. On his being asked by his friend the reason of his choice; he made answer, " It was to ease the fatigue of courtship, as the avenue to her heart must be so much nearer than that of one more plump."

### THE LIVING MORE TO BE FEARED THAN THE BAD.

A young gentleman having married a very discreet, virtuous young lady, the better to reclaim him, she caused it to be given out, at his return from his travels, that she was dead and had been buried; in the mean time she had so placed herself in disguise, as to be able to observe how he took the news; and finding him still the same gay, nconstant man, he always had been, she appeared to him as the ghost of nerselt, at which he seemed not at all dismayed; at length disclosing herself to him, he then appeared pretty much surprised; a person by said, "Why, Sir, you rem more alraid now than before." " Aye," reed he, "most men are more afraid of a LIVING WIFE, than a DEAD ONE."

#### ORIGIN OF AN OLD SAITNG.

A fellow who had stolen four pigs, was pursued and committed to prison. "D-mn it," says he, "I have brought my hogs to a fine market."

#### JACK KETCH.

Jack Ketch, being lately summoned to the Court of Conscience for a small debt, was asked now he meant to pay it? The answer was, "Why, an't please your honor, as I know the plaintiff and the family very well, I'll work it out for him in my own line!"

A young man was recommended to bishop Barnet for ordination. As his lordship stammered a little, he desired his chaplain to examine the candidate.—The first question proposed was, "why did Baalam's ass speak?" "Because his master had an impediment in is speech," answered the young man, which put an end to the examination.

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# AMERICAN FARMER.

# Bural Etonomy, internal improvements, news, prices gyrrent.

" O fortunatos nimium sua si bona norint "Agricolas." . . . . VIRG.

Vol I.

# BALTIMORE, FRIDAY, JULY 30, 1819.

Num. 18.

### AGRICULTURE.

### On the Management of the Dairy, PARTICULARLY WITH RESPECT TO THE MAKING

AND CURING OF BUTTER. - By J. Auderson,

The American Farmer, we wish our subscribers to understand, is intended no less for their wives than for themselves. Though woman, the most graceful and lovely object in creation, has in this happy land, approached nearer than in any other country to that station of dignity and consequence, which gratitude will never fait to assign her, for the thousand blessings she not so universally acknowledged as it deserves.

On the contrary, it has long been fashionable to rail unmeaningly at female extravagance, and to ascribe the rum of families, to the imprudence and vain frivolities of wives and daughters whereas, we verily believe, that where one family is brought by such means to disgrace and penury, hundreds are overwhelmed by the idleness, dissipation, and vicious habits of Husbards and Sons-yet, where one volume of rational instruction is written to guide, and fortify woman, in her peculiar sphere of duties, thousands have been published to enand political action.

How long shall we consider frivolous novels, and love-sick ditties, as the only food adapted to the digestive powers of the female nimd; and acting on this arbitrary and degrading presumption, bring about by our own treatment, that very debility of understanding, and insignificance of character, which we impiously ascribe to nature?

It shall ever be the aim and pleasure of the American Farmer, to pay respectful homage to woman's influence over our happeness, and by every means in our power to enlighen aid strengmen her in the administration of the many indearing and useful offices, which it is exclusively her province to exercise. Amongst these offices, not the least profitable, or pleasing to an industrious and notable housewife, is the superintendance of the Dairy; but in this, as in many other cuses, the husband fails in his duty. He often withholds the essential articles, without which, it is impossible for her to perform her part with satisfaction and success, and perhaps in few things does the Farmer provide more madequately, than in furnishing the means of a cleanly and profitable Dairy. We have known many men, to their scandal be it mentioned, with 500 acres of land, and numerous half clad and half fed slaves, buy their own butter for winter's use in their family.

Either their cows are of the most worthless breed, or they are, as is most generally the case, unterly unprovided with nourishing winter food-and even in summer, when malk is not wanting, their dairies are badly focated, injudiciously constructed, and without one sontary vessel or convenience well adapted to the purpose. In Mary and, more especially we can say, the garden, the darthe housewife's management, are left to "shift for them-selves." "My dear, the hands can't be taken off," is the usual reply, when he is reminded, that the things require attention; all things must give way to the corn, wheat and tobacco, which constitute, in his estimation, the chief good of this life-until, he seats himself at the table; when mee butter, fine vegetables, and a good towl are sure to attract their full share of his regard.

The following observations on the management of the dary and the making of butter, are the result of much and careful observation, and experiment. They are inserted here, that the Farmer's Wife may be made acquainted with some important part culars in the process of making butter, and that she may be enabled, when the tance as they deserve.

husband finds faurt on that score, to intimate to him, what it is necessary for him to provide, without which, all her exertions must be labour in vain .- Ed. Farmer.

When a dairy is established, the undertaker ought to be fully acquainted with every circumstance respecting the manufacture both of butter and cheese; here it is only proposed to treat of the manufacture of butter. The first thing is to choose cows of a proper sort; among this class of animals, dispenses around her; still we have often thought that it is found by experience, that some kinds give her true importance in the scale of domestic society, is milk of a thicker consistence and richer quality than others. In judging of the value of a cow, it ought rather to be the quantity and the quality of the cream produced from the milk in a given time, than the quantity of the milk itself; this is a circumstance of more importance than is generally imthe small cows of the Alderney breed afford the richest milk hitherto known; but individual cows in every country, may be found, by a careful selection, that afford much richer milk than othlighten van boasting man the self no inated "Lord of ers; these, therefore, ought to be searched for with Creation," in every department of individual, social, care, and their reed reared with attention, as becare, and their reed reared with attention, as being peculiarly valuable. In comparing the milk of two cows, to judge of their respective qualities, particular attention must be paid to the time that has elapsed since their calving. To make the cows give abundance of milk, and of a good quality, they must at all times have plenty of food Grass is the best food yet known for this purpose, and that kind which springs up spontaneously on rich dry soils, is the best of all. If the cows are so much incommoded by the heat, as to be prevented from eating through the day, they ought to be taken into cool shades for protection; where after allowing them a proper time to ruminate, they should be supplied with abundance of green lood, fresh cut for the purpose, and given them by hand, frequently, fresh and in small quantities, so as to induce them to eat it sel, and carried in it to any considerable distance, so as with pleasure.

> Cows, if abundantly fed, should be milked three times a day, during the wiole of the summer season, in the morning early, at noon, and in the evening, just before night fall If cows are milked only twice in twenty-four hours, while they have abundance of succulent food, they will yield a much smaller quantity of milk in the same time, than if they be milked three times. Some attentive observers I have met with, think a cow in these circumstancess will give nearly as much milk at each time, if milked three times, as if they were milked only twice. In the choice of persons for milking the cows, great caution should be employed, for if all the milk be not thoroughly drawn from a cow when she is milked, a diminution of the quantity gradually takes place, and in a short time the cow becomes dry. In the management of a dairy, the following peculiarities respecting milk, ought very particularly to be attended to; some of them are, no

#### MAXIM

Of the milk that is drawn from any cow at one time, that which comes off at the first is always thinger, and of a much worse quality, than that which coines afterwards, and the richness goes on, continualty increasing, to the very last drop that can be drawn from the udder at that time.

Few persons are ignorant that milk, which is taken from the cow last of all at milking, which in this coutry is called stroakings. (here strippings) is richer than the rest of the milk; but fewer still are aware of the greatness of the disproportion between the quality of the first and the last drawn milk from the same cow at one milking; from several accurate and important experiments, it appears, that the person who, by bad milking of his cows loses but half a pint of the last milk that might be obtained, loses in fact, about as much cream as would be afforded by six or eight pints at the beginning, and loses besides, that part of the cream, which alone can give richness and high flavour to his butter.

#### MAXIM II.

If milk be put in a dish, and allowed to stand till it throws up cream, that portion which rises first to the surface, is richer in quality and greater in quantity, than what rises in a second equal portion of time, and the cream that rises in the second interval of time, is greater in quantity and richer in quality, than what riscs in a third equal space of time, and so on, the cream decreases in quantity, and declines in quality continually, as long as any rises to the surface.

#### MAXIM III.

Thick milk always throws up a smaller proportion of the cream it actually contains to the surface, than milk that is thinner, but that cream is of a richer quality; and if water be added to that thick milk, it will afford a considerably greater quantity of cream than it would have done, if allowed to remain pure; but its quality is at the same time greatly debased.

#### MANIM IV.

Milk, which is put into a bucket or other proper vesto be much agitated, and in part cooled before it be put into the milk pans to settle for cream, never throws up so much nor so rich cream, as if the same milk had been put into the milk-pans, directly after it was milked.

In this case, it is believed, that the loss of cream will be in proportion to the time that has elapsed, and the agitation it has sustained, after having been drawn from the cow.

From the above facts, the following corollaries seem to be clearly deducible.

- 1. It is of importance, that the cows should be always milked as near the dairy as possible, and it must be of great advantage in a dairy farm, to have the principal grass fields as near the dairy as pos-
- 2. The practice of putting the milk of all the cows of a large dairy into one vessel, as it is milked, there to remain till the whole milking be finished, before any part of it be put into milk pans, seems to be highly injudicious, not only on account of the loss that is sustained by agitation and cooling, but doubt, known in part to attentive housewives, but also as it prevents the owner of the dairy from disthey have never been considered of so much importinguishing the good from the bad cow's milk; a better practice, therefore, would be, to have the milk

ing pans as soon as it is milked, without being mix ed with any other. Thus would the careful farmer be able, on all occasions, to observe the particular quality of each individual cow's milk, as well as its quantity, and to know with precision, which of his cows it was his interest to dispose of, and which he ought to keep and breed from,

quality, it would be advisable in all cases, to keep chaffing dish with burning embers. the milk, that it is first drawn, separate from that based, without much augmenting its quantity. It is also obvious, that the quality of the butter will dairy. be improved in proportion to the smallness of the proportion of the last drawn milk that is retained; so that those who wish to be singularly nice in this the last drawn milk.

4. If the quality of the butter be the chief ob-fully through a close strainer. ject attended to, it will be necessary not only to the milk which will be still sweet, may be either them. employed for the purpose of making sweet milk cream for making butter of an inferior quality.

the very best possible quality can only be obtained or more. from a dairy of considerable extent when judicious-

ly managed.

monly entertained on this subject, viz that it seems milk be taken, its quality will be debased \* probable that the very best butter can only be with ture of cheese is the principal object

had been treated alike.

No dairy can be managed with profit, unless a sweet at all times.

portant operation of the dairy, goes forward with

rapers

drawn from each cow separately, put into the cream-Ithe greatest regularity. When the heat exceeds has been kept three or four days in summer, is in an degree of economy, or propriety.

In winter, should the cold become too great, it 3. If it be intended to make butter of a very fine to remain till cooled. This I prefer to any kind of the butter more easily separated from the milk than

The utensils of the dairy must in general be made

separate the first from the last drawn milk, but also in depth, whatever be their other dimensions. As out all the milk that was lodged in the cavities of take nothing but the cream that is first separated soon as they are filled, they are to be placed on the the mass. The beating up of the butter by the from the best milk, as it is this first rising cream shelves in the milk house, perfectly undisturbed till hand is an indelicate and barbarous practice. If the alone, that is of the prime quality; the remainder of it be judged expedient to separate the cream from milk be not entirely taken away, the butter will in-

cheese, or it may be allowed to stand, to throw up very fine butter be intended, it should not be allow- persons employ cold water in this operation; but this led to stand more than six or eight hours; for ordina-5. From the above facts we learn, that butter of ry good butter, it may safely stand ten or twelve, cause the quality of the butter is thus debased in

It is of great importance to the success of the 6 From these premises, we are led to draw a any part of the cream be left, the quantity of the kept perfectly sweet and clean. conclusion, different from the opinion that is com-butter will be diminished; and if any part of the

When the cream is obtained, it ought immediateeconomy made in those dairies, where the manufac-ly to be put into a vessel by itself, there to be kept till a proper quantity be collected for being made in As but few persons would be willing to purchase to butter. And no vessel can be better adapted to them will in time sink through the wood, and injure every best butter at a price to indemnify the far-that purpose, than a firm, neat made wooden barrel, the colour of the butter. To season a new vessel the rery best butter at a price to indemnify the far-that purpose, than a firm, neat made wooden barrel, mer for his trouble, I am satisfied from experience in size proportioned to the dairy, open at one end, and attentive observation, that if in general about with a lid exactly fitted to close it In the under the first drawn half of the milk be separated at each part of this vessel, close to the bottom, should be milking, and the remainder only be set up for pro-placed a cock and spigot, for drawing off any thin the butter has been cleaned from the milk, as before ducing cream, and if that milk be allowed to stand serous part of the milk that may chance to be there directed, it is ready for being salted. Let the vesto throw up the whole of its cream, even till it be- generated; for if this is allowed to remain, it in- sels be rendered as clean and as sweet as possible, gins sensibly to taste sourish, and if that cream be jures the cream, and greatly diminishes the rich- and be rubbed all over in the inside with common afterwards carefully managed, the butter thus ob- ness of the quality of the butter; the inside of the salt; and let a little melted butter be run into the tained, will be of a quality greatly superior to what opening should be covered with a bit of gauze net- cavity between the bottom and the sides at their can usually be obtained at market, and its quantity ting, to keep back the cream while the serum is alnot considerably less than if the whole of the milk lowed to pass, and the barrel should be inclined a with the bottom and sides: it is then fit to receive little forward, to allow the whole to run off.

The separation of hutter from cream, only takes place properly adapted for keeping the milk, and for place after the cream has attained a certain decarrying on the different operations of the dairy, be gree of acidity. The judicious farmer will therefirst provided.\* The necessary requisites of a good fore allow his cream to remain in the vessel until it only preserves the butter more effectually from any milk house are, that it be cool in summer, and warm has acquired that proper degree of acidity that fits taint of rancidity, but makes it look better, and in the winter, so as to preserve a temperature near-lit for being made into butter with great ease, by a taste sweeter and more marrowy, than if the same ly the same, throughout the whole year, and that very moderate degree of agitation, and by which butter had been cured with common salt alone. The it be dry, so as to admit of being kept clean and process only, very fine butter ever can be obtained

How long cream may be thus kept in our climate, From the trials I have made, I have reason to without rendering the butter made from it of a bad believe, that when the heat is from fifty to fifty-five quality, I cannot say; but it may be kept good for a heat the whole into a fine powder, mix them well to-degrees on Farenheit's, the momenter, the separation much longer time than is generally suspected, even gether, and put them by for use. of the cream from the milk, which is the most im- a great many weeks. It is certain, that cream which

\*The author here gives a very particular description the dish, by means of an ivory bladed knife; then carefrom the milk, and put it, without loss of time, inthe best contrived milk house, or dairy. Vide Bath fully drawn towards one side by a skimming dish, and
to the rescal proposed so receive it processing it so then taken off with great nicety,

sixty degrees, the operations become difficult and excellent condition for being made into butter; langerous, and when it falls below the fortieth de-from three days to seven, may in general be found gree, they can scarcely be carried forward with any to be the best time for keeping cream before churn-

I prefer the old fashioned upright churn, having night be occasionally dispelled, by placing a barrel a long handle, with a foot to it perforated with holes full of hot water closely bunged up, upon the table, as it admits of being better cleansed, and of having

any others.

Where the cream has been duly prepared, the which comes last, as is obvious, that if this be not of wood. As the acid of milk readily dissolves process of butter making is very easy; there is howdone, the quality of the butter will be greatly de-lead, with which the common earthen vessels are ever more nicety required, than most persons seem glazed, such vessel should be banished from the to be aware of; a few hasty, irregular, strokes, may render the butter of scarcely any value, which, The creaming dishes, (for so I call the vessels in but for this circumstance, would have been of the which the milk is placed for throwing up the cream) finest quality. The butter when made, must be when properly cleaned, sweet, and cool, are to be immediately separated from the milk, and being put respect, will only retain a very small proposition of lilled with the milk as soon after it is drawn from into a clean dish, the inside of which, if of wood, the cow as possible, having been first strained care should be well rubbed with common salt. The butter should be pressed and worked with a flet These dishes should never exceed three inches wooden ladle having a short handle, so as to force fallibly spoil in a short time, and if it be much In a moderately warm temperature of the air, if washed, it will become tough and glucy. Some practice is not only useless, but also perpicious, bean astonishing manner. In every part of the foregoing process it is of the utmost importance, that dairy, that the skimming be well performed, for if the vessels and every thing else about the dairy, be

Wooden vessels are the most proper for containing salted butter. Oak is the best wood for the bottom and staves. Broad split hoops are to be

preferred to all others.

Iron hoops should be rejected, as the rust of for the reception of salted butter, requires great care: it should be filled frequently with scalding water, allowing it to remain till it slowly cools. After joining, as to fill it, and make it every where flesh the butter. Common salt is almost the only substance hitherto employed for preserving butter. I have found by experience, that the following composition is in many respects preferable to it, as it not composition is as follows:

Take of sugar one part, of nitre (salt petre) one part, and of the hest Spanish great salt, two parts;

Of this composition, one ounce should be put to every sixteen ounces of butter: mix this salt tho-\* The cream should be separated from the edges of roughly with the butter, as soon as it has been freed to the vessel prepared so receive it, pressing it so ties within it; smooth the surface, and if you exdipped in melted butter, that is exactly fitted to the edges of the vessel all round, so as to exclude the air as much as possible, without the assistance of any watery brine. When more butter is to be a lded, remove the coverings, and let the butter be applied close above the former, pressing it down and smoothing it as before, and so on till the vessel is full. When full, let the two covers be spread over it with the greatest care, and let a little melted butter be poured all round the edges. so as to fill up every cranny, and effectually exclude the nir. A little salt may then be strewed over the whole, and the cover firmly fixed down, to remain closely shut till opened for use. If this be carefully done, the butter may be kept perfect ly sound in this climate for many years.\*

It must be remarked, that butter cured in this manner, does not taste well till it has stood at least a fortnight after being salted. After that period is elapsed, it eats with a rich marrowy taste that no other butter ever acquires. Butter thus cured, will go well to the East or West tudies.

Butter in its natural state, contains a considerable proportion of inucous matter, which is more highly putrescible than the pure oily parts of the butter. When it is intended to be exposed to the heat of warm climates, it ought to be freed from that mucilage before it be cured and packed up. To do this, let it be put into a vessel of a proper shape, which should be immersed in another containing water. Let the water be gradually heated till the butter be thoroughly melted: let in contime in that state for some time, and allow it to settle: the mucous part will fall to the bottom. and the pure oil swim at the top. When it cools, it become opaque and paler than the original buiter, and of a firmer consistence. When this refined butter is become a little stiff, and while it is still somewhat soft, the pure part should be separated from the dregs, and then salted and packed up, in the same way as is before directed.

Those who wish to see the subject more fully treated, are referred to the on, inal.

FROM THE ALBANY ARGUS.

# Treatise on Agriculture.

SECTION 11.

On the actual State of Agriculture in Europe. [Continued from No. 10, page 75.]

3d. "The countries," says Arthur Young, " the most rich and flouri-hing of Europe, in proportion to their extent are probably Piedmont and the Meanese. We there meet all the signs on prosperty—an active and well conditioned population, great exportations, considerable int rior consumptions, superb roads, many opul fowns, a ready and abundant circulation, the

close as to have no air holes, or any kind of cavi-j interest of money low, the price of labour high quita and the Austorias, many species of the anin one word it is impossible to cite a single fact cient agriculture are yet in vigor, because " the pect it will be more than two days before you add more, cover it close up with a piece of clean linen, and Lyons are in a condition equally prosper-ciously violate then." The same causes are and over that a piece of fine linen that has been ous, as the whole of these Dutchies." Their followed by the same effects, in the three dispopulation is stated at "t,114,000, and the ter-tricts of Biscaya, Guiposcoa and Alava. "In ritory at little more than two millions of arpens, running over these, every thing one finds is ani-(acres.) Wheat, rye, Indian corn, flax and hemp, nated by the presence of liberty and industry: the vine and the olive, the caper and the cotton nothing can be more charming than the coasts, tree, with all kinds of garden fruits & vegetables. nothing more attractive than the culture of valare cultivated here: The soil knows no repose, leys .- Throughout the thirty leagues that sepaand much of it yields annually and unifor aly rate Bed lass of from Mittoria, every quarter of two crops of grain, or three of grass." (1) These an hour we discover some well built village, or are the miracles of Irrigation, not a drop of water comfortable cottage." (4) is lost. Besides the permanent supplies fur | How different is the aspect of the other proand led to reservoirs, whence they are distribut-finding a trace of human industry. In the dised at will to the neighbouring grounds.

> at Milan, consisting of 220 boys, who were instructed in theoretical and practical husbandry. Dutchy of Medina Sidonia, consists altogether of This institution has escaped the notice of trave pasturage. There is no where a vestige of man; ellers: and we are unable to say whether it has not an orchard, not a garden, not a ditch, not a or has not, fulfilled the intention of its projectottage to be seen! The great proprietor ap-

> of surface, and presents an assemblage of moun-But instead of human colomes, we encounter tains, one rising above another, until the sum troops of horned cattle and of mares, wandering. never melt. This short description sufficiently uscover no boundary or barrier, and which indicates the character of both the soil and the prings to one's recollection the days when the climate; yet unpropitious as these are, we find a peasts shared with man the empire of the earth.' (6) population of 1242 inhabitants to each square 'Even when the plough is used, it is little league! "This is perhaps the country of the more than a great knile fastened to a stick, that world, which presents the most happy effects of just scratches the surface. The grain is threshed an industry always active and persevering. The by horses or mules, driven over it, or by means traveller, who climbs her mountains, is struck of a plank, studded with nails or flint stones and with admiration when he beholds vineyards and drawn across it. (7) With even this iniserable rich pastures in those places, which before ap-peared naked and barren rocks. The traces of the plough are perceived on the borders of pre-cipices where the most savage animals do not Gallegos, who are the laborers of Spain. We pass without danger; in one word, the inhabit-need scarcely remark, that in a state of agriculants appear to have conquered all obstacles, ture like this, the peasantry cannot be either well whether arising from soil, position or climate, lied or well cloathed. "The mountaineers live and to have drawn abundance from a territory, principally upon reasted acorns and goat's milk, condemned by nature to perpetual sternhand those of the plain (from Barcelona to Maiaty." (2)

> 5. The classical reader will remember, that seasoned with vinegar." (9) Spain was the garden of the Hesperides of the tive and intelligent agriculture. To this state cribed it to the ex, ulsion of the Moors and Jews, of things even the empire of the Goths was not Jatal, (3) and that of the moors rendered it still more distinguished. In their hands, the plains if Valentia were cultivated throughout, with the horses, utmost care and skill; and where their wheels reservoirs, and drains of irrigation, yet remain, ing their swit ness, called them' the children of the winds. he soil continues to yield the richest and most abundant products. In Catalonia, Navarre, Gal-

nished from takes, poods, rivers, creeks and vinces! In these, not more than two thirds of the springs, even the winter torrent, and summer arth are cultivated; and "it is not uncommoa shower, are every where intercepted by drains, to travel eight and ten leagues together, without trict of Badejoz alone, is a desart of twenty-six In 1770, an agricultural school was established leagues in length and twelve in breadth. (5) pears to reign like the lion in the desert, repuls-4. Switzerland has about 1444 square leagues ing by his roaring all who would approach him. nits are lost in masses of snow and ice, which self directed, over plains to which the eye can

ga) on bread steeped with oil, and occasionally

It is wide of our object to examine the causes of Roman writers; by which was meant the com-the degradation of character, which marks the agbinations of a fine climate, a rich soil and an ac-recuture of spain. Well informed writers have as-

<sup>\*</sup> The Epping butter is called the best in England. The farmers make use of a very innocent colouring matter for their winter and early spring butter, which is the juice of carrots. They take clean and fresh carrots, and grate them fine, and squeeze out the juice through a coarse cloth and mix it with their cream. This gives their butter as fine an appearance as the besi June butter, without communicating any taste or flavor.

<sup>[1]</sup> Geographie, Mathematique, &c. Article Italie.

<sup>[2]</sup> Idem. Article Helvetia.

<sup>[[3</sup> tt appears from Varro Dere rustica and the letters whence their knowledge of the latter was derived.

<sup>[4]</sup> Burgoing's modern Spain, vol. 1.

<sup>[5]</sup> Corde's Hineraura de l'Espagne, vol. iv. page 30, [9] Burgoing. Spain has been long renowned for its

The Homans, in settling their pedigree and illustrat-

<sup>[7, 8, 9.]</sup> Swinburne's travels, voi 1. A Spanish peasant, who had earned or begged enough for the wants of the day, will refuse to earn more, even by running an errand. Striken, as this fact is, it does not so will itinstrate Spanish indolence as the following anecdote from the same pend in the great sedition at Madrid, which ended in the defeat of the king, and the disgrace or his minister, Charquis des squitas) and in his nost of Cassidorus, that the Goths introduced into Spain the fervid moments, but parties retired about dinner time subterranean granaries, called Sidos, and the art of irri-in take their mip or men itana, after which they returned gation. The former are now exclusively used in Fusca- to the compat with new vigor and enraged day. If w. and Cato's precept, 'Pranti irrigua,' Sc. shew hibits can thus control the passions to what important uses might not a wise legislation turn them?

quest. "We often find six, eight, ten, and even the whole arable land of France, yearly! fifteen leagues of extent belonging to one master. The nobility and clergy possess nearly the whole country. One third of Spain belongs to the famibe occupied in tillage."[10]

6. The agriculture of Portugal, has been subjected to the same evils as that of Spain, to which may be superadded, her connection with Great Britam; under whose policy she has become a raiser

of fruit instead of grain

which most unites the great desider at of an ex-making them. tended and profitable agriculture, fertility of soi', and a population of twenty two millions of inhabit-ants. The following tables will shew, in a com-5. To the eye, more than one half of France is which it is put :[11]

Geological Table,

	Arpens, or Acres.
Alluvial and other rich soil,	26,159,340
Chalky do	13,268,921
Gravelly do	3,261,826
Stony do	18,128,660
Sandy do	7,553,956
Substratum of clay with a slig	ght cover-
ing of sand-called landes	
Granitic and other mountains.	
Agricultural	
Arable land,	63.600,000
Vineyards,	4,761,960
Woods,	15,931,850
Natural meadows,	5,464,800
Artificial meadows,	6,332,100
Lakes, marshes, wastes,	19,400,049
, , ,	

made by the Ablie D'Expillyt, and others, it ap- excess of this matter renders the soil too rank. It pears, that in 1777, the agriculture of France was assist be of eminent service in reducing to charcoal, sufficient for the subsistence of its inhabitants, and had a surplus to spare ;[12] and though it be universally admitted that her condition in this respect is not less prosperous now than it was then, [13] still if left to the process of a natural dissolution; nor is it cannot be dissembled that her husbandry has ma- it very rapidly reduced by lime or other solvents ar-

1. A supposed resemblance between the earth

[10]Le Borde's Heneraire D'Espagne, vol. i.

common right of pasturage, to the discovery of A- that after cropping, the earth also required it .- to absorb water from the atmosphere is diminishmerica and its consequences, to the effect of climate Faithful to this absurd analogy, the French landlord ed in the proportion of 7 to 2; | and they are and the ill judged charity of bishops and convents, binds down his tenant by lease, not to crop the brought nearer to a state analogous to that of but principally to the great manorial grants and soil more than three years in four, which in effect sands; the particles are less adhesive, and the mass unequal division of the soil, which followed the con- is to consign to barrenness or weeds, one fourth of less retentive of moisture. Thus the process

production of grain is the great object of culture - stituted as a bed for vegetable life. The great oblies of Medina, Celi, D'Alva, Del 'Infatado, D'Ace- often with too little regard to the nature of the soil, jection made by speculative Chemistry to pairing da, and to the archbishops, bishops and chapters of and genrally without any of its improvement - and burning is, that the animal and vegetable mat-Toledo, Compostella, Valentia, Seville and Murcia "Where pasturage is scanty, where natural mea ter in the soil is diminished "But where the tex-A great proportion of these lands remain untilled dows are bad, where artificial are rare, and root ture of the earthy ingredients is permanently imand untenanted, and those which are let in Cortijo husbandry little extended, cattle cannot be either proved, there is more than a compensation or farms, are double or treble the quantity that can numerous or well conditioned; and as without these meet the objection still more directly, where an there can be no manure, so without manure, there excess of inert vegetable matter is present, the decan be no abundance." [14]

ed for that purpose or by renters on short leases; ful to the crop, than the unreduced vegetable fibre. which in neither case betters the condition of the of which it is the remains † could have been. soil; the one having no interest in improvements, and 7. France is probably the country of Europe, the other too small a one to justify any expence in a meadow overrun with rushes, is, first to drain it,

4 A good rotation system, adapted to the soil mildness of climate, a dense population, an enlight-land climate, is not absolutely unknown, and may be be prejudicial, are those of sandy, dry, flinty soils. ened government, and facility of exportation. With- found even in whole districts (as in French blanders) containing little animal or vegetable matter: here in her ancient limits, she boasts of a surface of more but much too rarely. We have seen wheat and fal-it can only be destructive; for it decomposes that than one hundred and fifteen millions of arpens, lows alternately, for years; and wheat, rye, hemp, constituent, which is already below the minimum

pressed form, the nature of her soil, and the uses to a common, without fences of any kind, excepting garand security, under such circumstances? Can the and experiments made upon it before the Workingpolice and the gens d'armes he sufficient substitutes? Iton agricultural society gave general satisfaction To be continued.

> the exclusive privilege-of the chace -of every species of corvee (labor performed by tenants for landlords) -of taxes or rents, and of rights of commonage-were among these effects; and if to these we add the division of the great landed estates of the nobility and clergy, there can no longer be any scepticism on this point. No truth is bet ter established, than the advantage of small farms over great as far as the public is concerned. The Roman la afund a (military grants) destroyed Roman agricultur [14] Berbins' Statistique Gen. de la France, vol. i ntroduc minimum

# Earth Burning---No. 2.

FROM A TREATISE ON SOILS AND MANURES.

It is obvious, that in all cases the process of Burn 115,493,758 ing, must destroy a certain quantity of vegetable From the average of a number of statistical tables matter; and it must principally be useful where an or wood ashes, a great accumulation of woody fibre already overrunning the field; for woody fibre is very slowy reduced to the state of vegetable mould, tificially appled.

Burning, likewise renders clay, less coherent; and and animals, gave rise to fallows; because men and in this way greatly improves their texture, and causes them to be more permeable to water,\* and cousequently, less retentive of it in stagnant masses, Another cause of the unproductiveness of cold, clayey adhesive soils, is, that the seed is coated with matter impenetrable to air. When clayey or

† Ibid.

to the weight of taxes and imposts, to the mesta or horses required repose after labor, it was supposed tenacious soils are hurnt, their power or tendency, of burning, properly applied, may convert a matter 2. There is not a sufficiently fixed, or steady pro-portion, between arable and pasture land. The one powdery, dry & warm, altogether more fitly construction of a part of it must be beneficial, and the 3. The land is generally worked by farmers, hir-carbonaceous matter in the ashes may be more use-

The most speedy way of bringing under tillage and then to pare off a thick turf and burn it

The cases in which hurning must incontestably proportion, and on the presence of which, in a limited degree, the productiveness of a soil depends. T

"Bur. mg without fire." A new method has lateden or park walls. Can there be order, economy, ly been discovered, of substituting quick lime for fire, The lime in its most caustic state, fresh from the kiln, is laid upon the vegetable surface to be consumed; and before it is weakened by exposure to the air, water, just in sufficient quantity to put it powerfully into action, is applied. This fierce compound will not only consume the vegetable covering, put affects the clay, or upper stratum, as if it had been in contact with fire. It supersedes the trouble which has hitherto attended buruing, and in respect to poor soils which wood be improved by the two distinct operations of burning and liming in the common modes, it bids fair to bring them sooner on a par with those of a superior quality.

||Elements of Agricultural Cemistry.

† Ibid.

### LAWLER WHEAT.

To the Editor.

dated-Whe House, July 19th, 1819.

Dear Sir.

I avail myself with much pleasure of the first leisure to answer your favor respecting Lawler Wheat. This wheat has been seeded by inyself and a few of my neighbours for the two last years, a period perhaps not sufficiently long to test conclusively its character, in as much as a contrariety of opinion exists amongst those, who have grown it in some degree may be the result of prejudice, and failures may have occurred frum many causes, not fairly chargeable to the wheat; the latter I am inc ined to believe, in many instances, the act : for where I have seeded it under favorable creumstan-

<sup>[11]</sup> See Geographique, xe. vol. vi. Art. rance, p. 13, and Young's tour through France.

and Young's four introgen grands.

[12] The products of agrandstural labour, were, in these tables, stated at 113,552,500 L.T. Those of manufacturing labor at 128.015,000.

[13] The effects of the revolution of 1789 on agriculture.

are no longer doubtful. The suppression of tythes-of

<sup>\*</sup> Elements of agricultural Chemistry.

This remark we scarcely comprehend-it seems to involve a contradiction in terms.

ces, the result has been satisfactory. In the fally experience may warrant; my agricultural specu-scovers of which should be soldered or cemented of 1817, I seeded the Lawler Wheat, on several farms, on corn ground and clover, lay on poor and rich land, and to test its qualities, sowed what is called here, the old Virginia white wheat, adjoining it, even in the same corn land. The white had been in corn, and then I judged the crop to have been lessened one half; the Virginia white not produce the seed sown; from 23 acres of clocured, and a good one as to straw, in every in-tronage of the public. Truly yours, stance, where the land was, as farmers term it, in good heart, good order, and seeded at a proper season. Thave one field of 90 acres, which will produce, estimating from the straw about 20 bushels Hints for American Tourists, in Forto the acre, but the wheat generally, has filled badly, in consequence of the dry weather. These are the facts resulting from two year's experience, our consuls in foreign parts, to send home, when they conclusion, but it may be necessary to add, that little injury was done by fly in my neighbourhood this season; it made its appearance early in May, in the Virginia white wheat, and some little in the Lawler wheat, but providentially neither were miterially injured. The Lawler wheat, in appearance, rescubles the Virginia white wheat, but thing which can enlighten, improve and adorn our risin my opinion it will not produce as well from the ing country; but as no funds are appropriated for the straws. The bars of wheat in the head are not as this matter, they must necessarily fall far short of the close, nor generally as well filled with grain, but full accumplishment of his wishes While Congress that it possesses the quality of resisting the fly in a and State authorities are providing for so many corpo-much greater degree than any other wheat known rate and other interests, it is high time they had beto us, is satisfactorily evinced by the experience stowed a little more attention on the immediate interof most of my neighbours and myself, for the last two years; what this quality is, yet remains conjectural. That its loosing its lower blades, at an ry department. Would be not do an act of signal serearlier period than other wheat, and consequently vice by issuing similar orders to the commanders of all depriving the fly of the usual place of deposit and protection, as is supposed by some persons, I to bring home the best individuals of rare families in the animal as well as vegetable kingdom. Indeed we should, from my observations, pronounce errone- have often thought it would result in great advantages, ous; for although I have somtimes observed the if the navy department could have the means of providlower blades to decline very early in the season, I do not consider it by any means a characteristic of the wheat. I have myself formed no opinion on tory the subject, or even conjecture, which I deem warbe responsible for its safe keeping, and it might be perripening than the Virginia white wheat, provided each officer, according to his month's pay. But we the latter escapes the fly, but in 1818, the Lawler merely throw out the idea at present, intending to enwheat ripened before the white wheat, in consequence of its being checked in the early spring growth by fly. It resists frost, and branches as much as any wheat I have ever cultivated, and has additional variety and profit to American Agriculture, weighed with me about three pounds per bushel and our object now is, to throw out hastily, some merc more than the white wheat. It produces flour of hints which may aid those who may have it in their the nicest quality, and will yield more fine flour in power to serve their country in this way. proportion to offal, than any wheat, exc pt the Vir- ont the best manner of preserving and transporting ginia white, that we have ever grown. I would seeds, plants and quadrupeds, and the particulars which advise it to be sown, from the 20th Sept. to the ought to be noted in relation to them, as connected with rity, and durability, should be ascertained, with 10th Oct. and on strong land, at the rate of from their natural history-and first as to Seed. five to six pecks to he acre, and from good land, unusual casualties excepted, I should anticipate should be taken that they are perfectly dry, the with confidence, a saving crop, in defiance of fig. should be packed in coarse brown paper, with be-

It will at all times afford me much pleasure to low seeds in each purcel, and the different parce

lations must be reserved for the amusement of myself and a small circle of friends, but of these you will no doubt receive an abundant crop, and if you from your now useful paper, the vagaries of theo wheat, generally with me was that season very rists, and agricultural empirics, you will deserve much injured by spring fly. The Lawler only in well of your country, and do honor to yourself; one instance, or rather a light piece of land which for unfortunately for the cause of agriculture, most publications on the subject, abound with the packing them in cerate papers, &c; but the grand wild notions of scribblers, who are as ignorant in secret is to procure them sound and dry, and to wheat adjoining it, and seeded the same day, did theory as deficient in practice, hence with those pack them in such a manner as to exclude fresh without experience, who read for the purpose of air, which eventually dries up their juices; and ver, lay sowed that year with Lawler Wheat, be-information, erroneous opinions are as apt to be what is of equal consequence, is, that the seeds be tween the 28th Sept. and 5th of Oct. I made by formed as correct ones, and practices are often planted as soon as each parcel is opened, as one actual measurements, (not by estimation, which is commenced in consequence, which eventuate in hour's exposure being in many cases, sufficient to too often the mode of ascertaining great crops,) loss and disappointment. Permit me in concludestroy a whole package. 628 bushels, weighing 63 pounds. The result of son to remark, that the Farmen, so far, is the 1817, induced me to seed nearly my whole crop best agricultural compilation, in my humble opinwith Lawler Wheat. In 1818, my harvest is se-lion, that I have ever seen, and deserves the pa-

EDWARD LLOYD.

# eign countries.

The order given by the Secretary of the Treasury to Those who feel an interest will draw their own could, all rare and valuable grain and grass seeds, manifests an interest in the cause of agriculture, which eninently entitles him to the thanks of the public. It is difficult to calculate the benefit which may be derived to our country, if the order should be executed in the spirit that dictated it. We trust it will be so executed. A great variety of seed, have already, as we notice been received at N. York, that great emporium of every purposes pointed out in the Secretary's instructions in the animal as well as vegetable kingdom. Indeed we -to consist chiefly of voyages and works on natural history The library being once furnished, it might be confided to the care of the chaplam or purser, who should large on it hereafter

Several of our officers and public functionaries a broad, have manifested a very becoming and honorable zeal for procuring such things as might serve to give

These hints will consist chiefly of extracts to point

In procuring the seeds of foreign plants, care

on, the more effectually to avoid the attacks of insects, and the admission of air; such kinds of seeds as are incased in hard shells, do not require can succeed without giving offence, in excluding these precautions but the less all the sorts are exposed to the air, the more probability there will be of their vegetating. Various experiments have been made of substances to pack seeds in, as Sugar, Rasins, enveloping the seeds in warm wax,

> As we derive so much from vegetables, it behoves the Traveller and the Philanthropist, to inquire and ascertain the properties of such as are in request in other countries, either for food or medicine, for the purpose of dyeing, or for mechanical or agricultural purposes; as practical information on these points may be of incalculable advantage. In pursuing inquiries relative to grain, culinary or esculent vegetables, the times and seasons of planting, sowing and reaping, should be carefully ascertained, as from the want of information of this kind, we frequently loose the advantage that might otherwise accrue from the introduction of exotic plants. The part cular soils and kinds of manure suitable or favorable to their increase, should also be noticed; as likewise what animals are particularly injurious to the crops, and what modes are adopted to prevent or repel their attacks.

The agricultural operations of foreign countries, well merit the particular attention of the Traveller, both with respect to the subjects cultivated, and to the purposes to which they are applicable; the quantities of seed apportioned to an acre of ground; the modes of sowing it; the average numher of hands employed on any given quantity of land; the modes of weeding or cleansing the crops; of ploughing, harrowing, irrigating, scarifying, and paring of land, should likewise be ascertained; as also the plans of mowing, reaping, or otherwise collecting and housing the crops, with the particular methods practised for thrashing or freeing the various seeds from their husks or chaff, or for preparing any vegetable substances for manufacng a small select library for the use of all our men of war ture, as hemp, flax, cotton, &c. Answers to tuese queries will with great probability be attended with advantage. As the introduction of a vegetable of equal value with the potatoe, would form thy of a communication. It is a few days later in petuated by a small proportionate contribution from an object of the highest national importance, Travellers cannot more essentially serve their country, than by ascertaining the kinds, and procuring ceds or plants of the various culmary or esculent egetables, in use in other countries, as by their atroduction, an addition will be made to our present stock of foodful plants, which is of far greatr importance than the introduction of a whole prest of tropical flowers; which though beautiful, ad highly interesting, are still of comparatively rilling value. Of the timber trees common to other countries, their size, age of attaining matuhe purposes to which, from the texture of the cood, they are applicable; if for ship timber, for uilding, for agricultural or domestic purposes; if apable of receiving a fine polish, or likely to be i use for the purpose of infaying; if any dye is make such communications for the farmer, as my stowed into small tin boxes or canisters, the lids or afforded; if the wood or oark is applied medicinally,

produce nuts or seeds, useable as food, or for the the position they grew in, should likewise be not purpose of extracting oil; if the husk like that of ced, whether from the crown of the root, or from the cocoa nut, is used for domestic purposes; whethe trunk, stems, or stalks; if they grow singly or attention to these subjects.

mens of the wood, (we do not mean botanically) nuch useful information, will naturally accrue, make the Farmer worthy of public encouragement, and small pieces should be obtained, cut to one size and the dissemination of the particular structure of any subcriber has been disappointed in his expectasay six inches long, by three wide and thick, these of the parts common to each plant, as growing in joins as to the value of the work, the Editor once more say six inches long, by three wide and thick, these of the parts common to each plant, as growing in joins as to the value of the work, the Editor once more being all of equal dimensions, will conveniently its native or wild state, will tend greatly to the value of the work is money. Here being all of equal dimensions, will conveniently its native or wild state, will tend greatly to the again the request is repeated that if any subscriber pack and be of sufficient magnitude to ascertain removal of difficulties, with which many exotic shall not have received any particular number, he will their qualities, particularly the ornamental kinds; species are encumbered.

The Philosophy of Botany, like that of every when obtained, they should be suffered to dry other branch of Natural History, does not consist and types purchased for conducting this paper, have over with varnish, which will mostly repel the in forming extensive collections, or in acquiring cost the Editor \$2000, independently of the cust of paattacks of insects.

stature, in good health, and if practicable, should subjects, and their own peculiar economy and be inured to a greater variety of temperature, than history; it is these particulars that give interest ted cattle, 20 each, from the South Branch of Poin their natural state they are exposed to; these to this and every other science, and are those tomac, for \$8,50 per cwt. picked from droves of should be taken up with a ball of earth adhering that a true naturalist will ever have in view; in 35 and 56, to their roots and the ball enveloped in a thick coat contemplating the varied productions of the fields of moss which should be tied over with pack-thread, or gardens, he will find nothing cloying, nothing or matting as represented by the subjoined en-affecting his passions or causing those unpleasant ty, sold last week, by J. P. Pleasants and Son, graving; they may then be placed in a case in feelings so often excited by the works of art, for moss, this should be packed closely round the truly, as Lord Bacon observed, a garden is the Donald and Son, for the same price balls of earth, and covered over the tops of the purest of all human pleasures; the wonderful vamoss should be netted over with stout string or structure, colour, and economy, their powers of meday for 210 and 10. cord; the case may be placed on the deck of the secretion of matter totally different from that vessel, in as airy a situation as possible, but where from which they draw their nutriment; as sugars it is not likely to be splashed with the spray of salts, acids, bitters, &c. are all objects of admira the sea, as this, if it falls on the leaves or stems of the plants, is very injurious, from the salts crystalizing in dry weather, and in the damp weather.

We annex the sketch of a Botanical register, of pieces of boards or canvas; the lid of the case species are applicable, may not be omitted. should be made to shut like that of a common hox; which in heavy rains, will prevent the plants from receiving a superabundance of water, and in dry, warm weather, will admit a large portion of air. As it is not at all times practicable, to get cases made in the form above recommended, a cask may easily be converted into a proper form for the conveyance of living plants.

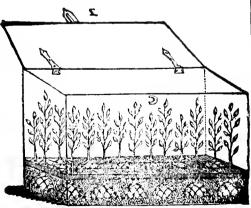
In making drawings or descriptions of plants. the following particulars should be most carefully attended to. The form of the root, as fibrou bulbous, tuberous, granulated or spindle shaped. the form of the stems or trunks in Trees; of stalkin herbaceous or shrubby plants; if they be simple or braoched; smooth, woolty, or hairy; if the hairs incline upwards or downward; the shape and texture of the leaves, whether sessile, or furnished with foot stalks, whether they be simple or compound; if flat, cylindrical, concave, convex, smooth. charged, as in the common Nettles if the edges nected.

and if so, how prepared, and administered; if they | ne entire erserrated, if surrounded by a margin her pitch, tar, turpentine, rosin, or guoss of any n pairs, threes, &c. or in whorls; their relative kinds are naturally produced, or extracted: if they position one to another if opposite, alternate, or The Editor offers, however, to give a receipt in full of all afford sugar, or from any natural or artificially pregular; these particulars merits the closest at-demands, to those who have not paul, provided they will caused exudation, a vinous or spiritous extract is tention, as they are those which often afford the received of the American Farmer.

Those who have badd for the Censor are particularly the first the section of the any Bractex. will probably arise in the mind of the observing or flora leaves, if these differ in form or colour f they wish to have the Farmer continued, it will be ne-Naturalist, which he will do well to have resolved. From the other leaves; the form, duration, texture, cessary to pay the half year at least, that is \$2 in adenough having been said in this place, to turn his or absence of the Calix: as also the same paticu-vsnce, before their present year's subscription expires. lars relative to the petals in the Carolla; the As a considerable difficulty arises in determin-number, situation and form of the Stamens, Pisti-As a considerable difficulty arises in determining number, situation and form of the Stamens, Pisti-other principle. He devotes all the leisure time he ing the particular species of Free, without speci-les, Seed Vessel, and Seed; by attending to these an eightfully gain from paramount official duties, to

a scientific acquaintance with the nomenclature per and printing. Plants of peculiar interest, that are destined to of the various species; but in ascertaining their Current Prices of Country Produce-Asbe sent from abroad, should be chosen of small uses, qualities, and relations as respects other

being decomposed by the humidity of the atmos- such particulars as should in all possible cases be phere: the case should have the two ends open, obtained; we have done this without reference to and covered with wire or strong netting, which any known species; but merely that the variouas occasion requires, may be further sheltered by particulars relative to the use to which different



For the Botanic I Register, we must refer our rearough, hairy, woolly, spinous, or furnished with hers to the next page. It is too heavy an truthe to not tubular spines by which a poisonous fluid, is dis- low in regular order, the matter, with which it is con-

NOTICE TO SUBSCRIBERS.

Those persons who receive this paper in lieu of the Maryland Censor, are again reminded, that unless all arwars are paid up prior to the 13th day of August next, the American Farmer will be discontinued on that dayand the accounts put into the hands of Agents to collect.

nor will its present Editor continue it for one day on any

LIVE STUCK.

Mr. Rusk purchased last week, two lots of fat-

I'wo crops of best quality, from near Benedict scarce; oats, 45 to 50; Rye, 62 1-2-Red Wheat, This season, is said to have 51,10 to 1 12 1.2. been very profific in garlie; by which the price of new crops is much affected; d fferent parcels if the same cargo, have sold at various prices, rom \$1,06 to 1,12, according as they were more or less exempt from garlie; some parcels have come up so full of it that they would not sell at The neat, well managing farmer, wno takes the pains to clear his wheat of garlic, out to be mindful, not to send it to market in bad company. White Wheat, fit for Baker's or family dower, \$1,20; Wool Cards, No. 5-50 cents per pair; No. 6, 62 1-2, Cotton Cards, 75 cents. Hay, S16 o 17 -Straw, \$12 to 13. Bacon the hog round, 12 to 13-Butcher's Beef best pieces, 10 to 12 1 2-Chickens, per dozen, \$2,50 to 3-Veal, 10 to 12-Mutton, 6 to 8-Salt Beef, prime pieces, 10-Pork, 8 to 10-Eggs per duzen, 25-Potaies, new crop, 37 to 50 per peck-Butter, per 1. 30 to 37; Connecticut cheese, best quality, on the boats, 10 cts. retail-derrings, retail, or bbl. 83, quaatity, 2,75, do. do. No. 2, 82.50 2.25-Snad, antrimmed, per bbl. retait, 80,50 ir, per obl. by the cargo, \$1,50-dosni, 5rch, \$2,75, scarce-Susquenannan Pork, first anty, retail, \$10-Boston Beef, No. 2, \$12ntn-Carolina, bundle Shingles, the run and aveige quality, 84 to 4 50 per M-Currituck, do. com \$6 to 8, according to the width.

If any of his subscribers would like to have any ther articles reported, the Editor of the American Farmer, will thank them to let him know. .

1819	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	www.www.	MEMORANDUM.		· · · · · · · · · · · · · · · · · · ·	www.www.www
M es	height, and four ind ral small insects; the they are produced in twigs and leaves, w	ches in girth at the base galls seemed from great abundance.	ase of the stem; the their astringent to The acorns scarce greeable scent while	e leaves were thickleste, likely to answe ly exceed a horse be burning; the woo	y beset with small re er the purpose of cor an in size, and grow d is hard and beautif	ed galls, each mmon oak ga in clusters; t' ully veined, a	eds ten or twelve feet in of which contained seve lls, as, though very smal he natives burn the sinal nd though of a sinall size
July 2.	A very elegant tree grew on all the hills, which we found much frequented by squirrels, and other small quadrupeds.  After the dry sea	The wood seem ed likely to be val- uable for buildings, and domestic pur- poses; as it was hard, close grained, and light.	pose of burning, the kernel is sweet and is eaton by the na- tives.	Grows most lux- uriantly, in a dry, gravelly loam; such as grew near the sea, were much stunted, their fruit was harder, and the husks producedless oil.	the smaller branches for fuel, but the trunks of the full grown trees they frequently hollow out for the purpose of canoes, these they cover with skins, and smear over with the oil which they obtain from the nuts.	from 8 to 12 feet.  Its duration is about 40 to 50 years, after which time trapidly decays.	Leaves appear in March, of flowers in April, and the fruit ripens in August and we september.  Belongs to class viii. Order 1.  It frequently acquires the height of 60 to 80 feet before
	days before, were li cies of flowers were	ke dry, barren heath in bloom, where ter	s, were now covered n days before not a	with a beautiful ve solitary leaf was to	rdure, and within a be seen. In our w	week of the falks at this ti	irst rains, numerous spe ime we met with a g.ea mon to the Eurpean bul
	We met with a grass of the most luxuriantfoliage;its taste was sweet, the leaves tender and juicy, and seeming admirably calculated for agricultural experiments.	It grows to the height of three to four feet with abundance of leaves at the root and on the stem; numerous herds of Buffaloes, Deer, and other an imals, resort to the places where it abounds, these all avoid eating the stems.	The natives generally when on their journeys, erect their huts where this grass is in abundance, as it supplies their cattle with plenty; they boil the stems and when the liquor is cold, pour it off, it having acquired a sweetish taste, and it is the only prepareddrink we ever saw them	low marshes, val- lies that are often	dance of seed, and also grows readily from partings of the roots.	Three or four feet high.  It is perennial and herbaceous and produces two crops in a year.	No. 25; and case xix, No. 19; case xix, No. 224.  First appears in February, and dowers in March and April; disappears in June, reappears in August, flowers in September, and disappears again in December.  Belongs to class iii. Order i.

# BALTIMORE:

FRIDAY, JULY 30, 1819.

#### ----LAWLER WHEAT.

On most agricultural subjects, particularly the cultivation of small grain, few persons have it in their powknown personal Industry, and his habit of minute ob-ing an insertion in your valuable paper: servation the immense extent of his possessions throws tion to this district of country.

#### CHILE WHEAT.

We hope in a short time to gather, from various gen-tle sugar. gram; but as far as we have heard or seen the fruit of a little water .- Ed. Am Farmer small quantities sowed in this neighbourhood, the result is not so encouraging. It seems to have lost its colour, and the grains are not so plump, and thoroughly

effectually resisting the attacks of the fly. The shape carrying one pair light four foot stones, with one of the head is altogether singular, but we forbear to ex- foot water under seven foot head. Will any press an opinion prematurely as to its qualities.

#### From the American Watchman.

Mr PRINTER, I make no doubt but the charitvation of small grain, few persons have it in their pow-er to speak with more confidence and accuracy able and humane object, which the writer here- We understand that thirty bags of saintfoin, (holy hay) than Col. LLOYD. For, to say nothing of his well of has in view will induce you to give the follow- seed, have just arrived in this market from France.

I have a child, two years and six months old, At Eddyville, Ky. June 23d, 1919, of a pulmonary open a boundless field for experiment. His usual who has been in a very uncommon degree afflict-complaint, contracted on the Canadian frontiers, Dr. Knowing that he had made some specific trials of the Knowing that he had made some specific trials of the Lawler wheat, of which so much was said a few years ter trying in vain the various prescriptions of the U. States, in the 34th year of his age. His loss is much since in the papers, we solicited the favor of him to physicians, I was advised by an old lady, my regretted by his friends and acquaintances not only on inform us what he had observed respecting it; his neighbour, to try a tea, made of the inner rind, ter, but on account of his patriotism, his urbanity and politeness, has enabled us to lay before the readers or bark of the black pak; which was administer. politeness, has enabled us to lay before the readers or bark of the black nak; which was administer- many virtues. He was the companion of the gallant of the American Farmer, his letter, which may be coned to the child in the quantity of a table spoon- Croghan in the memorable defence of Fort Stephens, and sidered conclusive as to its properties at least, in relationary and an inclusive and an inclusive spoon- Croghan in the memorable defence of Fort Stephens, and the spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has a spoon- Croghan in the memorable defence of Fort Stephens, and which has been considered as a spoon- Croghan in the memorable defence of Fort Stephens, and which has been considered as a spoon- Croghan in the memorable defence of Fort Stephens, and which has been considered as a spoon- Croghan in the memorable defence of Fort Stephens, and which has been considered as a spoon- Croghan in the memorable defence of Fort Stephens, and which has been considered as a spoon- Croghan in the memorable defence of Fort Stephens, and which has been considered as a spoon- Croghan in the memorable defence of Fort Stephens, and which has been considered as a spoon- Croghan in the memorable defence of Fort Stephens, and which has been considered as a spoon- Croghan in the considered as a spoon- Croghan in the considered as a spoon- Croghan in the considered as a spoon- Croghan in the considered as a spoon- Croghan full three times a day; and which has perform- Lower Sandusky. He has left a disconsolate widow ed a perfect cure in three days .- I recommend and two children, and a host of relatives and friends to it to mothers to do likewise. - Respectfully,

A MOTHER.

ples of the CHILE WHEAT It has been noticed by a far-spectable source, and desired to publish the fact, that with truth, that in a spirit of universal philantrophy mer in Virginia, in very favorable terms—he seems to what is called the summer complaint, may be cured with and benevolence of heart, he resembled his worthy consider it a valuable acquisition to our stock of small gun powder-a tea spoonful pulverized, and taken with preceptor.

## To Southern Millers.

very remarkable, giving it, perhaps, the power of more in 12 hours, with Town's Patent Water Wheel, Southern mill owner inform me how much better he can do? A VERMONT MILLER.

Boston Palladium,

#### DIED.

mourn his early death.-Kentucky Reporter.

(Dr. SKINNER was a native of Calvert county, in Maryland-eldest son of the late FREDERICK SKINNER, and N. B. The tea should be sweetened with a lit-eldest brother of the Post Master of Baltimore. He studied physic under the late Dr John Chawforn, and tlemen, the result of experiments made with small sam. We have been confidently assured from the most re- it is no small compliment to say, what may be said

He maintained through life, a course of unspotted honor and integrity; and the writer of this, who knew him thoroughly, takes consolation from the reflection, that he died with that fearless composure and dignity, filled, as the original stock.

The very late period at which it was sowed, and the dry weather, about the time of ripening, have been unsubsectionally at the South, and should be has been well performed, & that they can be reproachfavorable to a fair development of its proporties. In pleased to state, through the medium of your pa-ed with nothing which can dishonor their name, their the extraordinary thickness and solidity of the stalk, it is per, that I can grind 100 bushels of wheat well, friends, or their country.)

# PRICES CURRENT AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Revised and Corrected	ever	y Thui	rsday.
ARTICLES.	PER.	RETAIL	PRICES
BEEF, Northern mess	bbi.	15	
No 1 wholesale.	i	13 11	
Bacon,	lb.	16	
Butter, Ferkin, wholesale Coffee, first quality,		18 33	
second do		27	28
Cotton,		27	
Twist, No. 5,		45 46	50
No. 11 a 20,		53	80
No. 20 a 30, - Chocolate, No. 1,		80 <b>3</b> 3	1 20
No. 2,		28	
No. 3,	h	25 20	
Candles, mould,	box	18	22 19
spermaceti, -			scarce
Cheese, American, Feathers,	lb.	10 60	15 65
Fish, cod, dry	qtl	3 56	00
herrings, Susquehannah,	bbl.	2 75 6	retail
mackarel, No. 1 a 3 - shad, trimmed, -		7 75	9 7 87
Flour, superfine,		5 50	6
fine, middlings,	bbl.	5 4 50	5 5( 5
rye,		4 a	4 25
Flaxseed, rough,	cask		
cleaned,	bush lb.	do	
Hides, dryed,		12	13
Hogs lard, Leather, soal,		12 25	13
Molasses, Havana,	gal.	62 1-2	73
New Orleans, -		75	
sugar house, Oil, spermaceti,	gal.	1 1 50	
PORK, mess or 1st quality, -	bbl.	:8 a	20
prime 2d do cargo 3d do		16 a	17
Plaster,	ton	5	'3
ground Rice,	bbl.	1 75	1
Spirits, Brandy, French, 4th proof	llb. I gal.	2 6	3
peach, 4th proof	f)	1 25	1 5
apple, ist proof Gin, Holland, ist proof		1 50	1
do. 4th proo			1
do. N. England Rum, Jamaica, -		1 50	1 .
American, 1st proo	ſ	7.	
Whiskey, 1st proo		35	4
Soar, American, white, do. brown, -	lb.	18	
Sugars, liavana, white		19	
brown, N. Orleans, - loaf,	1	12 2	13
nimp,	lb	20	) a 2
Salt, St. Ubes,	bu.	7.	
Shot, all sizes,	lb.	i	
TOBACCO, Virginia fat,	cwt		
do. middlings, Rappahannock,		6 5	
Kentucky, -	١.,	6 5	0 7 3
small twist, manufactured,	lb.	2 5	5 5
TEAS, Bohea,			3
Souchong, Hyson Skin	lh.		5 a 10
Young Hyson,	1		5 a 1.5 a 1.
Muol, Merino, clean,		1 1 7	5
unwashed, -	1	1	0
crossed, clean,	ł	6	5
unwashed, - common country, clean,	1		55
unwash	ec		5
skinner's,,	-	9	31

## POETRY.

FROM THE ALEXANDRIA TELESCOPE. MOLLY O'SHEA.

On the moor round the cot of my fathers I roam, When the last beam of day-light is quench'd in the feeling seemed fled together.

And I hie to my dear little cabin and home, Ouce the canin of pleasure to Molly and me. The red-tinted cloud in the evening sky, Blushes bright as it hies from the court of the day, But all its soft sun-painted hues cannot vie,

O'Shea. 50 But the wind of the winter has blighted my flower, And shaken my bud from its fostering tree, 20 And now the straw cabin and green sunny bower, Have lost all their fondest endearments to me. Then I'll away to her wild rose planted grave, When twilight has fluttered unnotice raway, 22 And long the dear shamrock of Erm shall wave, On the green turf that covers sweet Molly O'Shea.

# 65 ACCOUNT OF TOPHAM, THE STRONG

MONTALDO.

MAN. From the British Review.

We learn from private accounts, well attested, that Thomas Topham, a man who kept a public house at Islington, performed surprising feats of strength; as breaking a broomstick of the first magnitude, by striking it against his bare arm: lifting two hogsheads of water; heaving his horse 15 over the turnpike gate; carrying the beam of a 13 house as the soldier his firelock, &c. But howso ever belief might stagger, she soon recovered herself, when this second Sampson appeared at for leave to exhibit, the magistrate was surprised at the feats he proposed; and as his appearance

well-made, but nothing singular; he walked with half naked, knocked in turn, when the poet started 60 a small limp. He had forme ly laid a wager, the the same difficulty as he had done "Aye, but masusual decider of disputes, that three horses could ter Santieucl (said the po ter,) I let you 'n very not draw him from a post which he should clasp civilly " " So will I you as civilly (replied San-20 with his feet; but the driver giving them a sudden trevet,) "you know the price-in or out is the 12 lash turned them aside, and the unexpected jerk word—and I can dally no longer." The porter had broke his thigh.

The performances of this wonderful man, in run the risk of loosing his place, slipt the piece of a 25 whom were united the strength of twelve, were gold under the door, saying—I thought a poet's man rolls up a sheet of paper-holding a pew-ly purchased his admittance. ter quart at arm's length, and squeezing the sides together like an egg-shell-lifting two hundred 5 50 weight with his little finge, and moving it gently over his head. The bodies he touched seemed 75 to have lost their gravitation. He also broke a rope fastened to the floor, that would sustain 1011 twenty hundred weight-lifted an oak table six 150 feet long with his teeth, though half a hundred weight was hung to the extremity; a piece of leather was fixed at one end for his teeth to hold, two of the feet stood upon his knees, and he raised the end with the weight higher than that in his mouth-he took Mr. Chambers, vicar of all saints, who weighed 27 stone, and raised him with one hand—his head being laid on one chair,

and his feet on another; four people, 14 stone each, sat upon his body, which he heaved at pleasure—he struck a round bar of iron, one inch diameter, against his naked arm, and at one stroke bent it like a bow. Weakness and

Being a master of music, he entertained the company with Mad Tom. I heard him sing a solo to the organ in St. Warburgh's Church, then the only one in Derby; but though he might perform with judgement, yet the voice, With the bloom that once glowed on sweet Molly more terrible than sweet, scarcely seemed human. Though of a pacific temper, and with the appearance of a gentleman, yet he was liable to the insults of the rude. The hostler at the Virgin inn, where he resided, having given him disgust, he took one of the kitchen spits from the martlepiece, and bent it round his neck like a honkerchief; but as he did not choose to tuck the end in the hostler's bosom, the cumbrous ornoment excited the laugh of the company, till he condescended to until his iron cravat. Had he not abounded with good nature, the men might have been in fear for the safety of their persons, and the women for that of their pewter shelves, as he could instantly roll up both .- One blow with his fist would forever have silenced those heroes of the bear-garden, Johnson and Men-

#### SANTIEUEL.

Santieuel, the French poet, returning one night to Saint Victoire, at 11 o'clock, the porter relused Derby, as a performer in public, at a shilling opening the door, saying he had positive orders to Upon application to Alderman Cooper, admit no one at that hour After much altercation, cantieuel slipt half a ours d'or under the door, and he obtained immediate entrance. As soon as he was like that of other men, he requested him to had got in, he pretended he had left a book upon a str.p, that he might examine whether he was made stone on the outside, on which he had rested himlike them; but he was found to be extremely mus-self while he waited for the door to be opened .-cular. What were hollows under the arms and The officious porter, animated with the poet's generhams of others, were filled with ligaments in him. osity, ran to get the book and Santieuel immediately He appeared near five feet ten, turned of thirty, -but the door upon him. Master Porter, who was finding he was to sleep in the street, half naked, and rolling up a pewter di-h of seven pounds, as a money would not stay long with ine-and according-

> A gentleman taking an apartment, told the landlady, "I assure you madam, I never left a lodging but my landlady shed tears." She answered, "I hope it was not, sir, that you went away without paying."

PRINTED EVERY FRIDAY AT \$4 PER ANN. FOR JOHN S. SKINNNER, EDITOR, At the corner of Market and Belvidere-street,

BALTIMORE.

# AMERICAN FARMER.

# RURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . Virg.

Vol. 1.

# BALTIMORE, FRIDAY, AUGUST 6, 1819.

Num. 49.

#### AGRICULTURE.

# Hints to Bairy Farmers:

BEING AN ACCOUNT OF THE FOOD AND PRODUCE OF A COW.

Pub ished by order of the English Broad of Agriculture.

The last number of this paper contained some valuable

Dairy.

If this subject were not imperfectly understood and its the neighbourchood advantages erroneously appreciated, the neighbourrhood of this, and all our large cities, particularly southern ones,

ductive dairy farms.

The advantages of land, near a large city, may perhaps

Hay is too bulky to be conveniently transported by water cow may be used as a machine, the hay be reckoned as the constant demand. But in truth, the selling of hay and butter arc not incompatible.

double return of butter for the market, and manure for the land been equally disposed to credit these accounts

On small duiry farms at least, if not on all others, the cows should be watered in the yard, if possible; and there nure heap will be thus incessantly accumulating. But thes readers the following-Hixts to Dainy Farmers, being an them in so peculiar a situation as his. ACCOUNT of the Foon and Produce of A cow, authenticated and published by order of the BOARD OF AGRICULTURE OF London, in 1811.

Ed. A. Farmer.

#### ADVERTISEMENT.

accustomed to expensive works. The communications every means of extending it; and should any experied as a Repository for the preservation of important/chankfully received, and properly stended to.

papers; but they have become too expensive for the generality of farmers to purchase, however desirous they might be of consulting it; the Board has therefore ordered these Papers to be collected in one cheap

As the world is apt, when any thing extraordinary comes before it, to doubt the authenticity of facts, it is proper to state the steps, that were taken in order observations on the construction and management of the to ascertain the accuracy of these Reports; this could be done only by application to such persons as know Mr. CRAMP, and have had sufficient opportunities, not only of becoming acquainted with his perwould abound, more than they now do, in small, rich, pro-sonal character, but also of observing the management of his Cow. With this intention, the board applied to the Earl of Chichester, who acts as Mabe turned to greater account, and enjoyed in a higher de-agree, by the cultivation of artificial grasses and the making of butter, than, perhaps, by any other mode in which capital opportunities of remarking Mr Cramp's conduct as a Keeper of the House of Correction at Lewes. His invested in real estate, can be employed a Keeper of the House of Correction at Lewes. His He who lays himself out for bringing these productions Lordship considers him as one of the most careful to market, has no rivalry to encounter from a distance, and accurate of men, and who has performed the duthay is too bulky to be conveniently transported by water ties of that difficult office with singular reputation and decided advatages in favour of making hay into butter. The appliance; and in regard to the ow Reports, his ordship does not entertain the smallest doubt of their raw material, and the butter as the manufacture, of great and accuracy, an opinion which induced him originally to recommend Mr CRAMP to the attention of the Board The proprietor of a very small farm near town, if he ir John Ellman, of Glynd, who resides within manage with industry and skill, will provide, in the first two miles of Lewes, has known Mr. Cna are for many place, an abundant supply of winter food; and, keeping as years; has seen every particular of his management many cows as convenient, the surplus of artificial grass, not many times; speaks of him in terms of high approaches and converted into butter by them, may be thrown better and converted into butter by them, may be thrown better and converted into butter by them, may be thrown better and converted into butter by them, may be thrown better and converted into butter by them, may be thrown better and converted into butter by them, may be thrown better and converted into butter by them, may be thrown better and converted into butter by them, may be thrown better the converted into butter by them, may be thrown better the converted into butter by them, may be thrown better the converted into butter by them. into the town market Besides the healthiness and the bation, and as one whose character stands much too pleasure of a rural system, whereof the dairy is the chief fair, to permit the smallest suspicion of any deception, object; it is attended with one eminent superiority, that and too careful in every part of his conduct, to render He must perceive, that the moment his money is invested any inaccuracy probable. Other persons, who have in con capital, it begins to yield an immediate interest, by its viewed the House of Correction and the Cow, have

The method of feeding described in these Papers, kest up and fed, frequently, and in small parcels. They and the great attention paid to the act of milking, may be then conveniently milked, three times a day, and merit universal imitation; and notwithstanding the and the great attention paid to the act of milking, near the milk house, as they always ought to be; the ma-hilliculty which may be found in many places, of propoints alone would justify an essay of four columns. If we CRAMP has pointed out substitutes for that species of through which a little consideration would conduct ; food, which, in his opinion, would be equally producwhereas, our particular object new is, to introduce to our tive of milk, though beyond his power of acquiring

> Without supposing that all the Cows in the kingdom could possibly be managed with the attention here described, yet it is fair to conceive, that on the principles herein laid down, a great improvement might

every where take place; and as the system is founded The management of Cows, recommended and prac-upon a perpetual confinement of the Cows, and consetised by Mr Cramp, of Lewes, in Sussex, has been quently a perpetual increase of dun, the extension of attended with such uncommon success, as to justify althe practice would not only cause a vast augmentation more general attention than has hit erro been paid to of dairy produce, but be felt also, most essentially ing it; and for the purpose of spreading a knowledge of that of arable land by the great increase of manure the practice, it was resolved to print the information In a word, the Board is extremely auxious that the 11th March to 24th March, transmitted by Mr. CRAMP, in such a form as may rea-practice here detailed, should be generally known, and 25th March to 2d April, sonably be expected to be read by many persons un they cannot but recommend to their Members, to take to the Board of Agriculture, in which these Reports ments be made, and carefully registered, on this inter The milk being measured when milked) of Mr (RAMP have hitherto been printed, are intended as ing object, the communication to the Board will be

#### PRODUCE OF A COW.

An account of the produce of Milk and Butter from a Cow, the property of William tramp, of Lewes, in the County of Sussex, for one season, commencing the 1st day of May, 1805, [thot being the day she calved up to the 2d day of April, 1806, a space of 48 weeks and one day.

for 18. $4d$ . per lb. only, for three weeks. Some Carry forward,	Deduct for butter sold in the month of August?		From 25th March to 2d April, left off milking,	From 11th March to 24th March, -	E From 4th February to the 10th March, -	From 30th October to 3d February, 1806, -	E From 11th September to 29th October, -	From 26th June to 10th September, -	From 8th May to the 25th June,	no account; sold the calf for	
				•	•	٠	•	ı	ŧ		
:	:	cc	-	10	ű	<u>_</u>	~1	11	~1	-	No. weeks.
:	:	11	င္၁	~	o	10	15	1-1	<u>.</u>	:	Pounds per Week.
:	<b>:</b>	540	డు	1.1	40	140	1.8	154	105	:	Quantity of Butter.
:	:	į	1 6	1 6	1 6	1 6	1 6	1 6	1s 6d	:	Sold at per Pound,
=	0	4	0	_	ಆ	10	6	11	7	11	Tot
7 0	7 0	41 14 0	4 6	- 0	0		6	8	17	7 0	fotai value.
			Bro	ug	lit	for	₩a	rd	,		l41 7 0
26th Lith 30th	Hay to June Sept. Oct. 1	25th to Ot to 29th to 3d to o Oth h to 2	h Se h O Feb	φ <b>t</b> ct. 18	816	; .	Qu	1 1	20	r day. L-Q	Quarts. 930 1424 785 1176 385 126
o≝ai'	3.5	1				٠,			_		1.0

from the cow, there must be deduct-

ed for cream,

45

4921

540

4381

1381 quarts of skim-milk, at 1d per quart, Made in the course of the season, four large wagon-loads of dung, thoroughly rotten, warth 15s per load.	)	5 1 0 0
1		
	62	12 1
Total expense, as below,	21	6.2
Profit,	141	5 11
•		
Expense.		
Grains consumed the summer, 26 weeks, 3 1-2 bushels per week, at 4d per bush.	{ <i>l</i> t	10-1
Bran, to bushel per week, at 8d per bushel	, 1	6 0
Winter 26 weeks, grains consumed, 8 bushels per week, at 6d per bushel,	5	<b>4</b> 0
Bran, 4 bushels per week, at 8d per bushel	, , 3	9 4
56 lb. of hay per week, at 5s 6d per cwt	. 3	11-6
Rent of the land whereon were raised the lucern, clover, carrots, &c.	} 0	15 0
To the wages of a man at the rate of 152 per ann. supposing him to attend ten cows; one tenth is	5	4 0
Farrier, for three drinks at the time of calving,	; 0	6 0
	121	6 2
	1-1	

The cow was fed with artificial grasses sown on the following plats of ground within the walls of the prison, containing, by meausurement, as follows:

			R	-P.
No 1. Sown with red clover a	ind rye-g	crass,	0	19
2with lucern,	-	· -	0	2
3with cow grass and	l white c	lover,	0	17
4 -with red and white		~ ´	O	13
5with lucern, -	-	-	0	101
6with earrets, -	_	-	()	21
,				

29

The above crops of lucern were ent four times, and the clover three times during the season, producing (each time) good crops. The cow not allowed to feed on the grass ground, but cut and given her in a rack in her hovel, where she has a plat of about 13 square perches to range in. I keep but this cow, nor have I had any other since I had her She is seven years old, and has had two calves; has been in my possession for two years.

Consumed much less food this year than the year before.

### Food and Treatment.

Summer season fed on clover, rye-grass, lucern, and earrots, three or four times a day, and at noon time about four gattons of grains, and two of brain mixed together; always observing to give her no more foud than she eats up clean. Winter season fed with hay, bran, and grains, mixed as before stated, feeding her often, viz five or six times a day, as I see proper, giving her food when milking; keeping the manger clean where she is fed with grains; not to let it get sour; wash her udder at milking times with cold water, winter and summer. Never tie her up; lays in or out as she likes; particularly careful to milk her regularly and clean. Milch Cows are often spoiled for want or patience at the latter end of milking them.

One man would attend ten cows through the year (with the exception of an assistant at milking times). Feeding Milch Cows as above stated, they will at all times be in good condition fit for the butcher, if an accident should happen. There will be no ground trampled and food spoiled by cattle running over a vast tract of land. I think cattle may be fattened by the same mode of feeding with much advantage; one fourth part of the land would feed them, a great quantity of manure made, and the beast fatten much sooner. Cattle so fed, have nothing to do but fill themselves and lie down to rest. No labouring for their food. I fattened the two cows I had before this, and made them very good meat in about seven weeks, (I found it to answer, although I bought the food at a dear rate, giving them a little ground harley or oats mixed with the grains and brau. I think cows would nearly double (in the course of the season) their quantity of milk and butter by following the above plan. It is necessary for a cow to go dry long before she calves. The thing will tell for itself. When her milk changes brackish, she should then be dried off; that may be, in three, four, or five weeks before she calves. Milch Cows seldom go dry before, unless it is from neglect, poverty, sickness, or bad milking Let the milk stand two days in summer, and three days in winter, before it is I have stated no more than one peuny per quart for skim milk, but I am informed, it sells in the town of Lewes, for three half pence, it being worth one penny to put in the hog tub. I fattened two hogs in the summer with no other food than skim-milk and grains, making them very good meat, weighing 16 or 18 stone each, at 81b. per stone. Where cows are kept in this way, hogs should be kept, as the milk will be (in the summer time) thick and sour, and fit for nothing else but hogs the people of this country making no use of it as food.

The following is the Pedigree of the Cow in question, which I received from Mr. Holman, a respectable Farmer at Bentley, in the County of Sussex.

The cow belonging to Mr. Cramp, was bred by John Holman (my father), at Bentley, in Framfield, in the county of Sussex, from a Sussex-bred Cow, also bred by John Holman, on the same farm; she was got by a bull bred by Mr. Colgate, at Hampstead-farm, in Framfield aforesaid; the father of which bull was also bred by Mr. Colgate, for which he obtained a prize-cup at Petworth on the 20th day of November, 1796. She was calved in March, 1799.

(Witness) Thomas Holman. Lewes, March, 1806.

N. B. My cow calved 19th day of April; the calf in very fair condition; the cow, having been dry for seventeen days only, was taken bad with the yellows at the very time of calving; but is now recovered, and going on very well. The calf sold, at twelve days old, for tl. 10s.

WILLIAM CRAMP
Keeper of Lewes' House
Lewes, May 10th, 1306. of Correction.

The Second Year's Account, commencing the 19th Day f April; 1806, (that being the day on which she calved, up to the 27th Day of Feb. 1807, a space of time of 45 Weeks.

gave no milk but what the can socked, per From the 3d May to the 23d May,

From the 24th May to the 6th June,

From the 7th June to the 3d October,

From the 4th October to the 12th December,

From the 13th Dec to the 6th February 1807,

From the 7th February to the 27th February }

left off milking, BUTTER. rom the 19th of April to the No. of weeks. ci a ci 2 o a Week. 9,5,5 Pounds per rollier duantity of Pound, Tod at per Lotal value 00000 Brought forward, 132 9 6

### Milk.

Quarts pe	er day.	Quar	į
From 3d May to 23d May	12	252	
25th May to 6th June,	1.4	196	
7th June to 3d October,	16	1904	
4th Oct. to 12th Dec.	14	980	
13th Dec to 6th Feb.	11	616	
7th Feb. to 27th Feb.	9	189	
		4137	

The milk heing measured when milked from the cow, there must be deducted for eream, - - -

3687

3687 quarts of skim milk, at 10 per	110	1 7	8
quart, comes to 3		10	
Sold the ealf for	-		_
Value of manure, four large wagon-loads	J	U	0

Total expense, 52 6 9 21 10 8

Profit, - - 130 16 1

Deduct for 280 lbs. butter, sold at 13 4d per

5.5

24 14 2

129 19

Expense. The same as in my last year's return, An additional expense for farriering,

of time of 51 weeks and four days.

From From From From From From

m the 6th day of April to the 30th A; m the 21st April to the 1st June, m the 2d June to the 5th October, m the 6th October to the 30th Nov. on the 1st Dec. to the 8th Feb. 1808, m the 9th February to the 14th Marel m 15th Meb. to 4th Feb. left off milk

1808, h March,

day of April. 1807, [that being the day she cal

ved. ] up to the 14th day of April, 1808, a space

On trial, I found malt dust to be serviceable to 6 2 my cow, giving her about a double handful at a 121 4 6 time, mixed with the grains and pollard. I would not recommend a greater quantity.

121 10 8 It may be complained by some, that they cannot get grains to feed their milch cows with: that difficulty can be removed by potatoes as a substitute The Third Year's Account, commencing the 6th grinding them in a common apple will, or pound ing them in a trough. Then mix the pollard with

them, as recommended in my first report. Potatoes are a very fine food for milch cows.

My cow calved the 23d of April; has a very ine calf, is in good condition, and going on as well as

WM. CRAMP.

Lewes, May 6, 1818.

The Fourth Year's Account, commencing the 23d Day of April, 1803, [that being the day she calved,] up to the 13th day of February, 1809, Expense as in my last years's report, a space of time of 42 Weeks and three Days.

#### BUTTER.

From From Deduct for 80 lb. of From pound only, the April to to the 6th y to the 13 l . pe d Jan. 1809, -e 16 January, the e3d January, h November, Carry forward 40 No. of Weeks. 1) eek. 56700115 Pounds per Butter. Quantity of Pound. Sold at per Ċı

Butter. Jo Liliacus ·punod Sold at per 😸 8 100 9 16 16 16 16 17 18 ω 6000000 Brought forward, 149 9 Qls per day. Milk. From 6th April to 20th April, 8 21st April to 1st June, 22 - 924 od June to 5th Oct. 20 - 2520 6th Oct. to the Suth Nov. 15 840 1st Dec. to the 8th Feb. 13 -910 9th Feb. to the 14th Mch.10 -15th Meh. to 4th April, 7 - 126 The milk being measured when ) milked from the eow, there 675 must be deducted for cream, 5107 5107 quarts of skim-milk, at 1d per quart, 121 5 Value of dung made this season, 3 0 0 Sold my calf at 14 days old, for 2 12 6

No. 01 Weeks. et w x x 2 2 2 2

12.6 F. Pounds per 🕳 🕿 🕾 🖀

Total expense, Profit, 121 6 2 1 10 6

Expense, as in my last year's return And additional expense in consequence of) the rise in price of grains and pollard, Ditto for 10 sacks of mult dust, at 2s 6d per To the farrier, for five drinks at the time of ealying,

24 14 2 three weeks. The complaint fell into the udder, and quantity of milk as she did the season before quantity of milk as she did the season before. This complaint was very general amongst mileh-cows that his, because many persons have asserted I ruined my 5 0 cow's constitution by milking her so long; and that she would never be the same again. The produce of milk 0 12 6 was not so much a last season; but I have no doubt, tha was in consequence of the complaint, and not from any other cause whatever. The produce of butter this sea

calibage, without any ill effects whatever. I have \* caving been taken ill with the yellows at the time of was the former season; the quantity of butter being on the ealf's oked; and that she was not milked so loog by her calving, she required the assistance of a farrier for proportion to the quantity of milk. It will be observed three weeks and one day, as she was the former season.

а						
t	.411	lk.				
,,	Quar	ts per di	ay. Qua	rts.		
	From 23d April to the 9th May,	3	51			
ıţ	10th May to 6th June,	20	560			
_	7th June to 5th Sept.	18	1638			
ij	6th Sept. to 7th Nov.	16	1008			
٠,	8th Nov. to 2d Jan.	12	67:2			
. '	3d Jan. to 16th Jan.	9	126			
lı	17th Jan. to 23d Jan.	8	58			
s	24th Jan. to 30th Jan.	7	49			
1	Sist Jan. to 6th Feb.	6	42			
y	7th Feb. to 18th Fcb. >	2 1-	9			
	left off milking,	~ 1-	" ]"			
S						
			4219			
	The milk being measured when		)			
	ed from the cow, there must	be de-	466			
	dueted for cream,		)			
-			3753			
- 1	3753 quarts of skim-milk, at 1d.	per qu	art,	15	15	9
	Value of dung made this season,		-	3	0	-0
ì	Sold the calf at seventeen days of	old, fo	r -	1	16	Ú
c				154	13	9
- 1				174	10	J

Profit,

Brought forward,

Note - There has been a doubt in the minds of some people, that I have overrated my skim milk, at one penny per quart. According to the price of food in this part of the country where I reside, I am still in the same opinion, that skim milk, at one pouny per quart, is cheaper than any other food I can buy to feed my nigs, ground corn not being sold for some years past at less than 4s 6d or 5s per bushel, weighing about 36lbs. When I oppose sixty quarts of milk to a bushel of such food, I am fully convinced it would do more than the bushel of corn. I do not hesitate to say, I think sixty quarts of skim milk equal to a bushel of such corn, if bought at 3s 6d per bushel.-No doubt, in that part of the country where corn can be bought for 2s or 2s 6d per bashel, skim milk would there be of less value; but I have stated my price suitable to that part of England where I am a resident. Gentlemen who live in Ireland, Scotland, Wales, and in the cheaper parts of England, will, no doubt, think skim milk very dear at one penny per quart; I have seen it sold, four quarts a peuny in Ircland.

In managing Milch Cows after the manner I have described, difficulties may arise in the opinion of many people, but I think there are few difficulties but what might be remedied. If grains cannot be had, there is no land but will produce potatoes, and they are an excellent substitute for grains, pounded in a trough, or ground in a common apple mill, and then mixed with bran. Bran also would be a good substitute for grains, wetting it to the same state as grains, and then mix a little ground outs or maltdust to separate it. Milch Cows may be fed with was, no doubt, the cause of her not giving so great a turnips and cabbages, provided proper attention be paid in doing it. One meal a day of turnips or cabspring in this neighbourhood; many cows totally loss larges will not affect the milk, provided care be taktheir milk, and some died of the disease. Thave stated en, and not give them any rotten or withered eaves. One rotten turnip or cabbage, would do more injury to milk and butter, than a cart load of sweet sound food. I have often given my Cow

sown rye, and tares, which I find to answer, they long as it is sound before it is skimmed, to make the will come rather sooner than lucern, if sown the first week in September One gailon of rye, is sufficient to mix with a bushel of tares. If the rye be sown too thick it will overnower the tares and injure them, but sown moderately than, it will support the tares and keep them from the ground. I have sown oats and red clover, and cut the oats before they came out in ear; the oats will shoot up again, (If cut before they are in full ear, ) and the clover grow up with them, and produce a good second crop; the clover will be in full perfection the spring following After the crop of rye and tares come off, lucern may be sown, and it will be fit to cut once the same summer, but no later than the middle of October. The lucern will be in full cultivation next summer, and will produce four cuttings the season. Lucern should be cut before it grows hard and stickey, or it admits waste, and it looses much of its good-

Dairies of any size could be managed after the manner which I have laid down, in most of its rules; a dairy of ten cows would require a plot of ground of about a quarter of an acre to range in; twenty cows, half or three quarters of an acre; and so in | good (as fresh butter) it will turn bitter and sour. proportion to the number. No land but will grow artificial grasses, and vegetables; and, no doubt, it fine calves, is in good condition, and promising to would answer even to cut the natural grass and feed be equal to any former season. She is ten year them. The object is the great saving for less than old last March [now past,] and has been in m half the land would maintain them. The cattle produce (in general) nearly double the quantity of milk and butter, and a great quantity of manure made -Where cattle are kept in this manner, the dung should be gathered up every day and thrown into a beap. The land to be cut should be that which lies nearest to the yard where the cattle are confined in order to save carriage. Where Milch tows are allowed to range abroad for their food, they will never produce that quantity of milk that they will when confined, let their food be ever so plenty; when they are not hungry, they will be searching after the sweetest spots of herbage and thereby deprive themselves of rest. Cattle, when hand-fed, will seldom refuse any sort of food, if properly attended; and no part of this country need be at a loss for provisions to feed them. Where grains and pollard cannot be had, Milch Cows should have a little pice hay [not heated] once a day, to keep them in a proper state, otherwise all green food would make them too loose. Often changing food is good for Milch Cows I seldom give my Cow two sorts of fond following. I cannot be at a loss where there is so great a variety to be had, viz rye and tares, lucern, cinquefoil, trefoil cow grass, clovers, natural grass, green nats, carrots, cabbage, turnips, grains, bran, pollard hay, &c. &c.

The Dairy .- Without proper attention to this part much loss and damage would ensur. The vessels that keep the milk should be carefully attended to in cleaning; if the acid of the milk is not scalded out clean, it will do much injury to the fresh milk, and make the butter hot and bitter. I have my milk pans boiled two or three hours; merely putting a little scalding water into a pan to clean it, is not sufficient, the acid of the milk will penetrate into the vessel, and cannot be got out by a little hot water. It is the opinion of many people, that if the eream is not taken off whilst the milk is sweet, the butter cannot be good. But I am convinced that is a very wrong notion; milk should stand as

most for butter. When cheese is made, it must h skimmed whilst it is sweet; but to say how long and should stand before the cream be taken off, is no in my power; it depends much upon the weather for that has the ruling of milk in a great measure In cold weather, milk may stand three, four, five, o six days before it is skimmed; but in hot, close, c thundering weather, perhaps not twenty-four hours he cream will keep best on the milk, as long a the milk is sound and will be adding in quantity; b milk being sound, I mean the cream should not b left on till the milk gets putrid: the cream will she that by changing spotty. The sooner cream churned into butter after it is taken off the milk. the better: I churn twice a week with one cow. summer, the churn should be made as cold as pos sible when the cream is put in to be churned, an in cold weather quite the contrary, by putting boil ing water into the churn to make it warm. I believ most people wash their butter with plain water t get out the butter milk, but that will not answer s well as salt and water. If the butter milk is no got out clean, the butter will not keep many day My Cow calved the 3d. of April, has got two ver

possession five years W CRAMP.

Lences, April 26, 1809.

The Fifth Year's Account, commencing the 3d Day of April 1809 (that being the Day she calved) up to the 8th Day of May, 1810, a space of time of 57 Weeks.

BUTTER. the the th of June to the 3 th July to the 18th 3th September to th 3th Nevember to the 1th Nevember to the 1th Percember to the 1th Pebruary to the 3th of April to the 3th May to the 7th May y to the 23d to the 30th e 7th May, sth September,

th September,

to the 13th November,

o the 25th December,

o the 25th February, 1

o the 23d April,

the 30th April,

the May, left off milkin, for six guineas each, No of Weeks, ∞ Week Pounds per Butter. Quantity of nunoa. Sold at per

			44 17	-
he	Brought forward,	18	7 3	0
he	Milk.			
lk	Quarts per day. Quarts.			
ot	From 6th June to 3d July, 24 672			
er,	To the 18th September, 22 1694 13th November, 18 1008			
	13th November, 18 1008 25th December, 14 588			
ε.	26th Feb. 1810, 12 756			
or.	23d April 10 560			
or	30th April, 8 56			
'S	7th May, 5 35			
as				
	The milk being measured when )			
Ьy	milked from the cow, there 594			
be.	must be deducted for cream,			
W	Total, 4775			
is	4775 quarts of skim-milk, at 1d. per quart,	1.9	17	41
he	Value of new milk exclusive of what the calves			•
l n	sucked.			
	From 3d April to 9th April, 10)			
s-	quarts per day70 quarts at \ 10 17 6			
nd	3d per quart,			
il-	To 23d April, 8 quarts per day 1 8 6			
ve	112 quarts, at Sd. per quart,			
to	To 7th May, 6 quarts per day, 1 1 9			
	84 quarts at 3d per quart,			
SO.	To 21st May, 4 quarts per day, 0 14 0			
ot.	56 quarts at 3d per quart, \ To 4th June, 3 quarts per day, \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			
ys	42 quarts at 3d per quart, 0 to 6			
	42 quarts at 50 per quart,	4	11	
ry	Value of dung made this season,	3	ō	0
	rande of dang made into season,			
to		184	11	11
rs	Expense deducted as in last years's report,	24	14	2
ıy	in the second of			_
- 1	profit,	159	17	9
	- 1			

The management of a large dairy, (after the plan which I have laid down,) may be attended to in most of its rules. Grains seem to be the greatest obstacle. I will suppose they are not to be bad at all; seven months in the year they are not wanted, as every kind of artificial food can be had in great plenty, giving a little sweet hav once a day, to keen them in a regular state. In the winter time there may be provided turnips, cabbages, and potatoes; the two former will no ways affect the milk and butter, if given moderately twice a day, carefully avoiding giving them rotten and withered leaves, and giving them plenty of sweet green saved hay, they will (no doubt) do much better than ranging abroad in the cold, hungry fields, labouring and fatiguing themselves for food, injuring the land, and thereby occasioning great loss of manure, 30 acres of land\* would be sufficient to produce food enough for 40 dairy cows (if properly managed,) including for hay; where, in the common mode of feeding, twice that number of acres would not do, and they would not produce above half the quantity of milk and butter. I think salting hay, when made into a rick for milch cows, would answer a good purpose. If salt could be had reasonably, about 20 lhs. to a ton of hay, shaken regularly over every layer by the makers of the rick, would cause thirst, and thereby increase milk. The quantity of food milch cows will consume, is not easy to ascertain; they should have sufficient, but not to commit waste. Cattle should not be over-fed, so as to be surfeited; little at a time, and they will eat their food clean. I feed my cow six or seven times a day.

In my statement this season, I have given no account of milk further than up to the 7th May, although she was milked up to the day before she

<sup>\*</sup> Something more or tess: much depends on the quality of the land, and management.

caived (she would not go dry ;) but the milk being brackish, was fit for no use but the hogs. I do not perceive the least injury, she had sustained by it; her milk came with the calves, and as soon, and as plentiful, as if she had been dry for two months and 4135 quarts of skim-milk, at 1d. per quart, her calves in good and lusty condition. She is now in as great perfection for the dairy as in any former season. It will be observed, my Cow produced a greater quantity of milk this season than any Expense, as in my last year's report, former one, but not a greater quantity of butter: that I cannot account for: it may be, the having twins: nature ordered it so, that they might be sufficiently supplied. It will be also observed, she produced a great quantity of milk, besides what the calves sucked; and why not make butter? The tri al was made, but in vain; the cream produced was small in quantity, and poor, and every trial made to make it into butter, for many hours, was to no purpose. This strange circomstance I am quite at a loss to account for, as I always milked her myself, sometimes before the calves, and at other times at ter, but the milk I got, produced no cream sufficient in quality to make butter .- Querry Could the cow have a power of withholding the cream part of her milk from me; or could the calves have an art of sucking it?

The Sixth Year's Account, commencing the 30th day of May, 1810 [that being the day she calved up to the 20th day of March, 1811, a space of

time 42 weeks and one day.

15th Nov. to 12th Dec.

10th Jan. to 30th Jan.

31st Jan. to 20th Feb.

21st Feb. to 20th March,

13th Dec to 9th Jan. 1811,

TER.  Derivative of the 19th June, 1999 AA Johnson He 20th June to the 4th Sopt. 11 16 1176 11 From the 15th Nov. 10 the 19th Doc. 10 11 14 140 Prom the 15th Nov. 10 the 18th Doc. 11 12 48 12 From the 19th Jan. 10 the 30th Jan. 1811, 4 10 40 11 From the 19th Jan. to the 30th Jan. 1811, 4 10 40 11 From the 21st Feb. to the 20th March, 3 9 27 11 From the 21st Feb. to the 20th March, 4 3 12 12 14 14 14 14 14 14 14 14 14 14 14 14 14		•
the 90th May to the 19th June, the 20th June to the 4th Sopt. the 5th Sept. to the 14th Nov. the 15th Nov. to the 12th Dec. the 18th Dec. to the 9th Jun. 1811, the 10th Jun. to the 30th Jun. the 18th Jun. to the 30th Jun. the 21st Feb. to the 20th March,  42		•
the 90th May to the 19th June, the 20th June to the 4th Sopt. the 5th Sept. to the 14th Nov. the 15th Nov. to the 12th Dec. the 18th Dec. to the 9th Jun. 1811, the 10th Jun. to the 30th Jun. the 18th Jun. to the 30th Jun. the 21st Feb. to the 20th March,  42		
the 90th May to the 19th June, the 20th June to the 4th Sopt. the 5th Sept. to the 14th Nov. the 15th Nov. to the 12th Dec. the 18th Dec. to the 9th Jun. 1811, the 10th Jun. to the 30th Jun. the 18th Jun. to the 30th Jun. the 21st Feb. to the 20th March,  42		•
30th May to the 19th June, 39th Sept. to the 4th Sopt. 111 15th Nev. to the 12th Dec. 418th Dec. 418th Dec. 418th Jan. to the 30th Jan. 1811, 4319th Jan. to the 30th Jan. 531st Feb. to the 20th March, 42		•
30th May to the 19th June, 39th Sept. to the 4th Sopt. 111 15th Nev. to the 12th Dec. 418th Dec. 418th Dec. 418th Jan. to the 30th Jan. 1811, 4319th Jan. to the 30th Jan. 531st Feb. to the 20th March, 42		•
No. of Weeks.		•
No. of Weeks.		
No. of Weeks.		•
No. of Weeks.		
No. of Weeks.		•
No. of Weeks.		
No. of Weeks.		•
No. of Weeks.		•
No. of Weeks.		
No. of Weeks.		
No. of Weeks.		
No. of Weeks.		
No. of Weeks.		
No. of Weeks.		
Aveen.		
Aveen.	I	
Pounds per.	-	
Founds per.		
3		
ے ·		
Butter, orrang		
Butter.		
3		
Found.		
2010 at her		
4 000000000		
· H		
Total Value  11 16 13 4 10 0 18 10 1 17 10 18 10		
22		
10 1 V <sub>2</sub>		
16 16 16 18 18 18 18 18 18 18 18 18 18 18 18 18		
88 00800000		
Brought forward, -	136	7
MILK.		
Quarts per day. Milk.		
om 80th May to 19th June, 10 - 210		
20th June to 4th Sept. 20 - 1540		
5th Sept. to 14th Nov. 18 - 1260		

672

480

210

168

90

4620

10

The milk being measured when milked from the cow, there must be deducted for cream, 217 4 Value of dung made this season, 3 0 Sold the calf at 10 days old, 2 2 0 158 14 24 14 2

33 19 11 My Cow calved the 30th of April; had a very fine calf: milked her till she calved: her milk was brackish for a month, and fit for nouse but the hogs, she then springed very quick, and her milk became perfectly sweet and good for a week before she calved, and fit for any use whatever; a very lear proof of the high perfection she was in; and since I parted with the calf, I have made 16ths. of butter per week, and am now in the act of doing so. For my part, I require no other proof than what I have experienced, to convince me of the great advantage of feeding cattle after the plan 1 have laid down. Masters and mistresses who under take to do their own work, will soon find the advantage arising from this mode of treatment; and if put into the hands of servants, there is no difficulty whatever, but a simple person may perform, with the attention of their master and mistress in the begenting, to convince them of the truth. There is generally some trouble in forming any new mode that is a public benefit, and likewise in laying aside an old one, let it be ever so bad. WM. CRAMP.

Keeper of Lewes House of Correction. Lewes, June 20, 1811.

For these Accounts, the Board of Agriculture voted Mr. CRAMP their Honorary Silver Medai.

### RIPPLE GRASS.

TO THE EDITOR, dated-19th 7th mo (July) 1819. MY FRIEND.

I WROTE the enclused, agreeably to its date, then intending to forward it for thy amusement, and at the same time not intending it for the public eye. Finding since, thy intention to write something on Grasses, I send it on at thy disposal. The ripple Grass, although not in general approbation amongst many farmers, yet I have the same opinion, and a favourable increase of estimation, on the proof of this dry season. After cutting about the first of this month, although no rain since the 25th of May, except a light shower or two within a few days past (only laying the dust)—the Ripple lis shot into blossom and seeding, having advantages over every other kind except Clover; it and the Clover seem to be vieing with each other for the lead.

My hay, mown from it and Clover this year, heing all housed in good condition, I never was more 7 6 pleased with the quality, being put in without any rain; and it ought to be observed, that the dry seasons produce the richest grass. That is well known to graziers, for although scarce of pasture, apparently, yet their cattle fatten betier in dry than in wet seasons, the abundant growth occasioned by much wet makes a weak feeding pasture, and the same observation will hold good in making hav --I never sowed the ripple purposety, until the Spring of 1818—and the dryness of this year 1819.

plan until I see reason to convince my judgment otherwise. I know it to be favorable for the grain farming, therefore can plough at any time, and change if necessary, but shall cease sowing Timothy a few years if I shall live to continue the o change. CALEB KIRK.

Brandywine 6th mo. (June) 23, 1819.

Observing in No. 12 of the American Farmer, an essay on the subject of grasses, by J. H. M'Cur-Lon, which discovers much correct knowledge of the comparative value of the different kinds most in cultivation, clover takes the lead as the most valnable, and more particularly for the cultivator of grain. One remark he makes on clover that it keeps the ground moister than any other. He might have observed also, that it is in a mellower state with a crop of clover than any other; this measurably is one principal cause of retentiveness to moisture.

There is a kind of grass very common in this coontry, that is not mentioned in the list of those described; and although it may not claim that estination which I conceive to be its due, I believe the want of a correct knowledge of its virtues to be the most prominent cause why it is not duly appreciated; and I know it is so generally disapproved of by some firmers, that they endeavor to destroy every appearance of it in their farms. I have observed it many years, and for a considerable portion of that time with indifference, always having it more or less in my fields. About 1797 or 98, the clover was very much frost bitten in the month of October, and pasture failed. My milch cows were failing in their milk considerably, when they were turned into a field well set with Rib Plantain or Ripple Grass, as it is generally called, with strong succulent blades, that the frost had not effected in any other way than to make it more palateable. The cows increased in their milk from this lot of ripple or rich grass, beyond any thing I had ever known, (it was only part of the field that was so well set) and afforded an abundant supply of excellent butter for the winter.

This circumstance set me into the enquiry on the merits of this reprobated grass. In conversing with a very worthy and noted farmer advanced in life, and who was famous for having excellent stock, both horses and horned cattle, and relating my surprise at the increase of milk from the late pasture of that grass, after all others had failed by frost-he smilingly observed, that he admired that I had not known the value of that grass before-his observation for many years back had convinced him that no hay was equal to it (first crop) for horses; he always raised his colts on it, and his horses would have a better coat through the winter on it than on any other kind of hay. He seldom used any grain, and I well know that his horses were always remarkably full of flesh without grain, as observed before, except they had some work to do more laborious than common; a little oats and corn was then occasionally added, otherwise no grain was fed to his stock of horses.

I generally sowed timothy with clover, and have mostly had good crops of that mixture for hay. From the circumstance of clover, particularly the second crop, producing such a salivating effect on horses, I have, of late years, become more careless of sowing it, and depended on timothy and other grasses for hay-but I discovered that my happens luckily, for I shall continue my present land became less productive both in grass and grain-

Resuming the sowing of clover I subsisted rig ple grass as a mixture in the place of timothy, last year, on all my wheat crop, and am now cutting. 23d of 6th mo. [June] as good a crop of hay as need be desired in quality, and a considerable portion of white clover has sprung up amongst it which enhances the value of the hav, and which I never had to grow so well with timothy. The high ground sown this year, has been lessened by the dry weather, having no rain for a month past except a light sprinkle-the bottom land near the water more productive, some producing two tons to the acre, but taking the whole together, perhapnot more than one and a half, but the quality better than when a larger quantity, and the weather so dry as to house it with all its virtuous qualities undiminished .- The amothy has proven very deficient this season, by reason of the drought, I suppose.— Where I had timothy alone, I lead not half a crop. and was obliged to cutbefore it shot into head, as it was dying on the ground. It may be observed, that the ground is dryer under a timothy crop than under any other grass.

I am now determined to try the ripple further, knowing it to be favourable for the cultivation of grain after it and clover. They grow and blossom and -ced, so precisely at the same time to cut together; and if moist weather when cut, will grow several inches before the hay can be taken off. In fact, they both grow all the season; some object to the quantity being small, making no product. have always had a mixture with other grasses, therefore cannot ascertain the quantity, but have, in that mixture had it grow three feet in height, with a head full of seed three inches in length, and a bunch of blades at the root filling up well at bottom. 1 have never found it rejected by any kind of stock when in hay: sheep are remarkably fund of it, and they are good judges of flavour in hav. I have often thought. They will also dig into the surface of the ground after the root in winter, where it grows strong, not being easily killed by frost. For a dairy farm, near a city, a field of this grass well set, and kept up the last three mostis of autumn until it gets a head, being no more desirable at that season by cattle, than clover of strong growth; but when frost has killed the clover, this becomes sweeter. & they are fond of it. I have no doubt that a field of this grass, at that season, would produce more butter, and of a better quality, than any kind yet in cultivation.

Top dressing, with compost manner, after the pasturing is over, would encourage the green grass to rise amongst it, and enhance the value either as pasture or hay.

I know our prejudices often get such an ascendency over our better judgment, that we are not at liberty to exercise that discriminating faculty we are favored with, at all times.

When we imbite an opinion upon a subject, we seldom trouble ourselves with further investigation, whether that opinion is founded upon a fact or an unlair ground, until something very striking presents the view in a contrary shape affording matter to work opin by reflection, and contemplation, then we lagm to find ourselves relieved from the transmels of prepossession in some one point.

CALEB KIRK.

# Earth Burning --- No. 3.

Results of some experiments in Burning of Clay, in a letter to the Bath and West of England Agricultural Society. BY THE REV. WILLIAM WILKIESON.

Gentlemen,

I have been led to believe, that the result of some experiments, I have had it in my power to make in the hurning of clay, and in the use of clay ashes as manure, may be acceptable to the Society.

In making this communication, however, I take leave to premise, that I have no view to the remium you have offered on this subject. I am mare that the offer is confined to experiments

made in the Western Counties.

At Lady-day, 1815, a tenant threw up a farm beloning to me at Woodbury, in Cambridgeshire: and I was induced, by many circumstances to take it into my own occupation. The farm is of very considerable extent, and chiefly under the plough; the soil, a cold, stiff, tenacious clay; it had been overcropped for a long series of years, without a proportionate return of manure; and it is so situated, that no quantity of manure is to be purchased in the neighbourhood. It became my object then, to raise as much manure as possible on the premises; and for this purpose I procured a north-country bailin, who understands the management of turnips on a heavy soil, and have ing by accident seen Mr. Craig's letter on the burning of clay, I conceived mine to be a soil well suited to the practice. I accordingly after some correspondence with that gentleman on the subject, made my first experiment in the end of September 1815. I deviated a little from the plan laid down in Mr. Craig's printed letter. Having marked out a space of 15 feet by 12, 1 excavated it one foot deep, and with the soil thrown out made a wall around the space. At each corn er I made an air-pipe, each pipe (made of sods) extending only two feet in the enclosure, in a diagonal direction. In the centre of the enclosure I placed upright the but end of a large tree around which other fuel is placed, covering the bottom of the whole space within the wall. The fuel consisted of straw, bushes, large billets of wood, and dry roots of trees. I then put dry tuif over the whole suiface, which again was covered with a thin coat of clay, newly dug up, except a small hole by which the fire was introduced. The fuel being dry, the fire spread rapidly, and it required the active exertions of two men to smother the flames as they burst out;they used for this purpose, dry turf, which they immediately covered with clay. During the first two or three days the surface of the heap occasionally sunk in places, and apparently grew cold; in these places fresh fact was put, care being taken to make but small openings; and I may here remark, that this operation should be done as speedily as possible, for external air let into the heap, after it was once tarrly on fire, seemed to do mischnef

fr now burned well, and evenly over the whole surface, for several days; each covering of clacrombling to ashes in an hour or two after it was put on. It appeared to burn quicker or shower according to the state of the atmosphere. In also a week's time from the commencement of the ex-

periment, the heap grew to such a height, that a difficulty arose in lodging the fresh clay on the top of it, although the walls had been heightened; and I attempted, as recommend d by Mr. Craig, to pull down one of the side walls, and enlarge the base by spreading the hot ashes. In this attempt I did not succeed without much trouble; and I was obliged to add a great quantity of fresh fuel, before I could accomplish my object, and restore the heap to its former heat.—It continued to burn well four or five days after this operation; but as the days were becoming short, I did not attempt to spread the base still further, but permitted it to burn out

This heap was on fire twelve days, and was constantly attended in its process by two men, from four o'clock in the morning till nine at night, when a thicker coat of clay than usual was put on: one of these men was chiefly employed in digging the clay, the other in wheeling it (only a few yards) to the heap, and throwing it on sometimes by hand, and sometimes with a spade.

This heap I afterwards found contained 37 cart loads of ashes: and as my farm lies nearly level, and it was removed to no great distance, the carts were well filled: each load probably, consis-

ted of a cubic yard of ashes.

In the spring of this year, 1816, I burned another heap, which was found to contain upwards of 40 loads of ashes; and during the summer I burned two more heaps the one contained 72

loads of ashes, the other about 55 loads.

I will not take up your time in describing the progress of these heaps, so accurately as I have done that of the first. In fact, the operation proceeded in all the cases precisely in the same manner. I remarked however, latterly, that the labourer who conducted this business for me became more expert, especially in spreading the base of the heap; though, even at last, this was not done without a considerable expenditure of fact. I never had more than two men and a boy employed at once; and my bailiff having kept an exact account of the expense attending these experiments. I am enabled to state, that on the average, the cost was about 1s. 6d. the cart-load. In this calculation nothing is charged for the fael, having plenty of bushes and offal wood on the premises; a value however, was put upon it as it was used, and 3d, or 41, per load may be added on this account; I may therefore say, that the whole cost was 1s. 9d. the carrioad.

t will now add a few general remarks, which may be useful to any one who may wish to burn sub--oil. The fire appears to spread upwards most readily, and the heap grows first cold at the bottom, and towards the walls. As my experiments were made in different parts of the farm, there was a slight variation in the soil; and I observed that where the clay had no mixture of gravel or stones in it, burned the best; and I always thought it crumbied quicker, when it was newly dag up. Summer is certainly the best season for this operation, chiefly on account of the short nights, which permit the heaps to be watched with more case. Moderate rain does but little from to the fire; high winds are infinitely more discountive to it. I do not think the clay loses such in quantity by being exposed to the acon of fi , but it certainly decreases in weight. ood is supposed to be the bes kind of fuel, cal requiring too much air to promote combustion

<sup>77.70</sup> donars and upwards, have been deposited in the Savings Bank, at Philadelphia.

It now remains for me to give what information I am able, in regard to the beneficial effects of clay ashes as a manure. The heap of ashes I burned in the autumn of 1815, was used early in this year to manure an acre and a half of land, part of a much larger field. A part of the same field had been folded late in last year with sheep. and the remainder was manured with very good vard dung. The whole field was cropped with barley; and either from the seed being ploughed in too deep, or some other cause, the crop was not a very good one: but I may truly say, that the part manured with ashes was better than that dunged: the part folded was evidently the worst. The same gradation may now be observed in the clover plants, the seed of which was sown soon after the barley.

The greater part of the heap of ashes I burned this spring, was used in the beginning of June to manure an acre and a quarter of land, in the middle of a field of live acres, the remainder of which was manured with the best yard dung .-The whole was sown towards the middle of that month with red rind turnip seed; a Northumberland drill was employed to deposit the seed: the distance between the ridges being two leet and a half, so as to admit the horse hoe. The crop is a very good one indeed, many of the turnine being 26 inches in circumference; and one, which I had taken op and weighed, was 29 inches in circumference, and weighed 11 1-2lbs. I do not perceive that the part manured with clay ashes has at all an inferior crop on it to the rest of the field; my bailiff indeed, remarked, that on the plants first coming up, he thought them there the

From this heap of ashes six loads had been reserved, which were thrown, the end of June, over somewhat less than a quarter of an acre of rough grass land; and it is perceptible, that the sheep,

more closely than the rest of it.

The two heaps of ashes I burned during the summer, containing together, near one hundred and thirty loads, have been used this last October, to dress six acres of land, which had been got into a good tilth by a naked fallow: the ashes were first spread, the wheat seed was then sown, and they were lightly ploughed in together. The rest of the field, in which these six acres lie, had been folded with sheep on a naked fallow, and was sown with wheat about the same time. I left my farm about ten days ago, when the young wheat was just come up; and it appeared full as thick on that part of the field manured with ashes, as on the remain-

I have thus in the course of a year, hurned upwards of 200 loads of ashes, and manured nine acres of land, at an expense, fuel included, of about 118-and, I am so well pleased with the result of these experiments, that it is my fixed intention to burn ashes to a much greater extent during the next year.

Having brought my communication to a close, I may be permitted to say, that the practice of burning sub-soil is not altogether novel: Lord Halifax and others pursued it in the beginning of the last century; and successful experiments of the same nature have been made from time to time until Mr. Craig, of late years has introduced the practice in the south-western parts of Scotland. It is now to be hoped, that, being better understood, it will become more general. I take the liberty, however, of recommending to those gentlemen, who feel inclined to burn sub-soil, to consider, first, the fitness of their soil for the purpose; and whether or not their situation affords a facility of procuring other well-known mapures: for, as this practice is not unattended with expense, it must always be a matter of calculation whether other manures cannot be procured cheap-

I would, lastly, recommend to them, if they do make the trial, not to be content with a single, desultory experiment, which, from many causes, may possibly fail. My own success, in the first instance. Lattribute, in some measure, to having a plentiful supply of dry fuel on the spot; but chiefly to the repeated instructions of Mr. Craig to whom, I thus publicly make my grateful acknow ledgments.

I do not think the practice likely to spread among tenants of farms; lew tenants will go to the expense of purchasing fuel; and few (andlords will allow them to cut it for this purpose on their farms: besides, the digging the soil disfigures the spot where it takes place, and few tenants will take the

trouble to make it neat again.

I have the nonour to remain, Gentlemen, Your obedient humble servant, WM. WILKIESON.

To the President, &c. Bath, Nov. 22d, 1816.

BALTIM RE, FRIDAY AUGUST O.

CURRENT PRICE OF COUNTRY PRODUCE - ASCER-TAINED BY ACTUAL SALES--WITHIN THE LAST WEEK.

Tobacco.-Virginia, no sales, that we have during the summer, have caten that part of the field heard of, since last report; Maryland, wagon, 811 to 15-Patuxent, \$10 to 12 1-2. We have heard of but I hid, being sold the present week; Red Wieat, (good) \$1 10 to 1 12 1-2-Corn, 50 to 53; Rye, 55-Oats, 50-Hay, per ton. \$17-Straw. \$13. A cargo of 600 hushels good Red Wheat, from Cecil County, sold on Wednesday last, by Mr. Peter Levering, for \$1 12 12-Butcher's Beef, best pieces, 10 to 12 1- .- Chickens, per doz. \$2 to 2 50-Veal per lb. 8 to 10-Motton, 6 to 8-Salt Beef, prime pieces, 6 to 10-Pork, 8 to 10-Eggs per dozen, 12 1 2 to 18 3-4-Butter, 37 1.2 to 50-N. E. Cheese, first quality, 9 to 11-Potatoes, new crop, per peck, 37 to 50-Onioos, per peck, 50 cents.

NORTH CAROLINA STAPLES. - Tar. S1 62 1-2 Turpentine, (soft) 3., sales-Do. Spirits. 40 a 45 cts.-Rosin, don, a \$2-Varnish, bright, 50 a 35 cents-White Beans, 50 a 100-Black Ey'd. and other Peas, 75 a 80 cts .- Flooring Board-, 5-4 inches, \$20 a 22.-No sales for any other kind of lumber.

The Selectmen of Salem, have ordered the constables to patrole the streets on Sundays, to "prevent the assembling of young men and boys at corners of streets and other places-and to counteract their profane and improper way of passing the day." The names of those who refuse to consent to these regulations are to be taken, and prosceution immediately commenced.

 $Bodily\ Disease.$ TO GOV. FRANKLIN,\* N. JERSEY.

London, August 19, 1819.

In yours of May 14th, you acquaint me with your indisposition, which gave me great concern. The resolution you have taken to use more exereise is extremely proper; and I hope you will steadily perform it. It is of the greatest importance to prevent diseases, since the cure of them by playsic is so very precarious. In considering the different kinds of exercise. I have thought that the quantum of each is to be judged of, not by time or by distance, but by the degree of warmth it produces in the hody: t'm; when I observe if I am cold when I get into a carriage in a morning, I may ride all day without being warmed by it; that if on horseback my feet are cold, I may ride some hours before they become warm; but if I am ever so cold on foot I cannot walk an hour briskly, without glowing from head to foot by the quickened circulation; I have been ready to say. using round numbers without regard to exactiess, but merely to make a great difference) that there is more exercise in one mile's riding on norseback, than five in a coach; and more in one nile's walking on foot, than five on horseback; to which I may add, that there is more in walking one mile up and down stairs, than in five on level fluor .- The two latter exercises may be ad within doors, when the weather discourages going abroad; and the last may be had when one is pinched for time, as containing a great quantity of exercise in a handful of minutes.-The dumb bell is another exercise of the latter compendious kind; by the use of it I have in forty swings quickened my pulse from sixty to one hundred beats in a minute, counted by a second watch: and I suppose the warmth generally increases with quickness of pulse. B. FRANKLIN.

Dr. Franklin's Son, to whom the first part of the Memoirs of his life is addressed.

GEN. GREENE.

In Council, Savannah, July 26, 1819. On motion of Alderman Harris.

Resolved ununimously, that the mayor and aldermen Harris and Ash, be a committee to ascertain, by all means in their power, the vault where the remains of General Greene have been deposited, and on identifying the same, to have such remains placed in a neat mahogany coffin, and thereupon report to council for their further proceedings

on this interesting subject.

Resolved, That this resolution be communicated to the representatives of the deceased, who may now be in this state, and also to the proprietors of the vault to be opened, to obtain leave for the committee to carry this resolution into effect.

THE SEASON.

We have never witnessed a more growing season than this. Mother Earth is uncommonly protase in her promises of an abundant harvest. Our ardens and fields exhibit a most delightful spectacle. The frequent refreshing and copious slowers it rain and warm influence of the sun have brought forward the vegetation to a surprising degree.

Eastport (Moose Island) Centinet.

# PRICES CURRENT

#### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

	гн.∤	RETA	ıL	PEICE
BEEF, Northern mess b	bI	17		
No 1	1	15		
No 2	.	13	50	
Bacon,	b.		16 18	6
Butter, Ferkin Coffee, first quality,			33	2
second do.	- }		27	
Cotton,	ì		27	
Twist, No. 5,			45	
No. 6 a 10,	1		46	5
No. 11 a 20, - No. 20 a 30, -	İ		53 80	1 2
Chocolate, No. 1,	- }		33	
No. 2,	- 1		28	
No. 3,	- 1		25	
	xo		20	2
dipt, spermaceti, -			15	l scarc
	ь. Ì		10	ا
Feathers,			60	6
Fish, cod, dry	tl		50	
, , ,	bl.	2	75	retail
mackarel, No. 1 a 3	ł	9	75	12
shad, trimmed, - , Flour, superfine,	- 1		50	6
	bl.	5	-	5 5
middlings,	1		50	5
rye,	٠,١	4		4 5
	ush	none de		
	b.	do	- 1	
Hides, dryed,			12	1
Hogs lard,			12	1
Leather, soal,			25	5
Molasses, Havana, g	al.	62	1-2 75	\ \
sugar house,		1	10	
	al.	1	50	
	bl.	:8	α	20
prime 2d do		16	a	17
cargo 3d do Plaster, I	on	14	а	15
	bl.	ì	75	
Rice, 1	b.		6	
SPIRITS, Brandy, French, 4th proof	gal.	2		3
peach, 4th proof apple, 1st proof		1	25 75	1 -
apple, 1st proof Gin, Holland, 1st proof		1	50	
do. 4lh proof		-		
do. N. England		١.	50	
Rum, Jamaica,		1	50	
American, 1st proof Whiskey, 1st proof			75 50	
	lb.	1	18	
do. brown, -			9	
Sugars, Havana, white,			19	1
brown,		12	25	15
leaf,   lump,	ь.	1	20	
	bu.	1	70	
Liverpool, ground,			75	
Shot, all sizes,	lb.	_	12	
1	cwt.	6	50	J
do. middlings, Rappabannock,		5	30	5
Kentucky,			50	
	lb.		25	
pound do			5(	
TEAS, Bohea, Southong,	lb.	1	63	1
Hyson Skin		1	7.5	
Young ifyson,		1		I.
Imperial,		1		1
WOOL, Merino, elean,		1	80	
unwashed, - cros-ed, clean,			4( €3	
unwashed, -		1	35	
common country, clean,	1		S'	7
unwashed			21	
skinneris, • •	ľ	1	33	51

## MISCELLANY.

From the P hilapelphia Union.

Chinese method of taking wild fowl—Whenever the fowler sees a number of ducks settled in any particular splash of water, he sends off two or three gourds to float among them. These goords resemble our pompions; hut being made hollow, they swim on the surface of the water; and on one pool there may sometimes be seen twenty or thirty of these gourds floating together. At first the fowls are shy at coming near them, but by degrees they approach nearer; and as all birds at length grow amiliar with a scare-crow, the ducks gather about them, and amuse themselves by whetting their bills against them.

When the birds are as familiar with the gourds as the fowler could wish, he prepares to de-19 ceive them more effectually. He hollows out one of these goords large enough to put his head in; 15 and making holes to breathe and see thro', he claps 65 it on his head. Thus accounted, he wades slowly into the water, keeping his holy under, and nothing but his head in the gourd above the surface; in 87 that manner he moves imperceptibly towards the towts, who suspect no danger. At last, however, he fairly gets in among them; while they, having 25 been long used to see gourds, take not the least alarm while the enemy is in the very midst of them; and an assidious enemy he is; for whenever he approaches a fowl, he seizes it by the legs, and raws it in a jerk under water; there he fastens it 30 under his girdle, and proceeds to the next, until he 75 has loaded himself with as many as he can carry away. When he has got his quantity, without ever attempting to disturb the rest of the fowls on the pool, he slowly moves off again; and, in this manner, pays the flock three or four visits in a day. Of all the various artifices for catching fowl, this seems likely to be attended with the greatest success, and is the most practised in China.

# ON THE ART OF SWIMMING. From the Essex Register.

In the warm weather, we have an increased list 60 of deaths from accidents, and such as betray inattention, rather than circonstances of uncommon danger. Many persons fall from the frames of buildings, from their carts, and from boats in which they are carelessly sailing. We reckon accidents not from the dangers, but from the months in which they are expected to happen. Such as have no es ne lect about them, are by far the smallest part in 25 one season, when they are not so in another. The many losses from the want of experience in the art of swimming are well known. Frequently the loss is from being seldom immersed in water, when the untried situation deprives of all power to recollect what would tend to safety. In seapurts, it is peculiarly incumbent on parents that they accuscom their children to swim, and to be in the water every way that commerce may oblige or endanger. More depends on self-command than open any other aid, when thrown unexpectedly into the water. It should be enjoined on persons learning to swim, not to includge in the amusement without company, till they have full command of themselves, and even then, in youth, the richness of the recreation is in the company which aids it. Youth should remember, that when immersed naked, they are much better provided for motion than when covered with clothes and that, when their clothes are an incumbrance,

they should, as much as possible, be kept under water in all the motions which safety may require, and that they can be taken off more easily below the water than above it. Persons who know least about swimming, should trust to motion least, and if they can put themselves at rest by holding to any thing, or by a very gentle motion, to prefer it, till help is afforded them. So much agility and enjoyment may belong to swimning, that the Romans do not surprise us when they speak of a man not taught to read or swim, as the must untaught of men.

HUMOUR.

The Georgia Advirtiser, published at Augusta, by Mr. T. S. Hannon, frequently abounds with strokes of fine humour; the following are not among the least conspicuous, for their wit and epigrammatic point.

EVENTS AND ANTICIPATIONS.

The difficulty of obtaining discounts has had no effect upon the musquetoes—they continue as lively and active as in the most prosperous times.

Such is the scarcity of money, that water-melons will hardly bring a dollar a piece in market—indeed so great is the distress over the river, that it is not supposed above three hundred dollars will be bet on the next Garden-Pulling.

Twenty-four persons, on Saturday last, took razors in their hands and shaved themselves with great deliheration;—several others, however, having money to pay, got shaved without losing their beards.

Notwithstanding the dulness of the times, any person having money to lend, may be furnished with customers on the shortest notice.

From the absence of Specie, it is tho't that some of the Western Banks will have to pay their notes in Bacon, or suspend their operations.

Should Bacon be substituted for Specie, as a circulating medium, it is thought Irish Potatoes might be advantageously made use of for small change.

The inflexibility of steady habits is not confined to New-England—it is strikingly exemplified in the Augusta market, where articles maintain their former prices in defiance of the change of times and the scarcity of cash.

GERMANY.

From the various accounts which reach this country, it is very plain that this important section of the globe is soon to be the scene either of reformation or of revolution. It is the still small voice of general discontent that seems to speak, and not the turbulent ravings of a discontented lew. It appears inevitable, either that the nability who are now possessed of the entire control of those states, must surrender voluntarily to the people a portion of their prerogatives, or that there will at no very distant day, appear a formidable or determined opposition to the present governments. Perhaps it would be a wild prediction, to point out the several independent states of Germany as about to witness similar disturbances to those which convulsed the French kingdom at the awful period when Louis XVI. was hurled from his throne [Portland Gaz.

RINTED EVERY FRIENT AT \$4 PER ANN.
FOR JOHN S SKIN ER, EDITOR,

At the corner of Market and South-streets,

BALTIMORE,

EBINEZER FRENCH, PRINTER.

# AMERICAN FARMER.

# Rubal Economy, internal improvements, news, prices current.

" O fortunatos nimium sua si bona norint
" Agricolas." . . . . Vieg.

Vol. I.

#### BALTIMORE, FRIDAY, AUGUST 13, 1819.

Num. 20.

#### AGRICULTURE.

FROM THE ALBANY ARGUS.

Treatise on Agriculture. SECTION III. Theory of Vegetation.

[Continued from No. 18-Page 140.]

mals and minerals. The latter grow by mere chymical affinity, and by additions, sometimes analazation that enables them to receive their food, di-lowing inquiry. gest and assimilate it to their own substance, reproduce their species and maintain an existence learned are agreed, but at the next step they

The first of these, shewed, that the rain water. employed by Van Helmot, was itself charged with saline and other earthly matter; Berman demon-mixtures. See also Davy's Elements, p. 150. strated this by analysis, while Kirwan and Hales (2) In this respect nature has been neither negligen salt entered into the composition of plants, contended that these formed their principal food, and accordingly recommended, as the great desideratum in agriculture, an oil compost. Lord Kaims attempted to revive the expiring creed of Lord Bacon, but finding from Hales' statics, that one third of the weight of a green pea was made up of a carbonic acid, he added air to the watery aliment of the English philosopher—but entirely rejected oil and earth, as too gross to enter the mouths of plants, and salt, as too acrid to afford them nourishment. Quackery, which at one time finding principle of soils and manures.

Lams of primitive, secondary and terliary formation, calcarious soil of Mount de la Salle, the other rains and the laws of gravity, brought these from places from the granitic soil of Mount Bevern. Uff a lamination and terliary formation, calcarious soil of Mount de la Salle, the other rains and the laws of gravity, brought these from places from the granitic soil of Mount Bevern. Uff a lamination and the laws of gravity, brought these from places from the granitic soil of Mount Bevern. Uff a lamination and the laws of gravity, brought these from places from the granitic soil of Mount Bevern. Uff a lamination and the laws of more, to those of less elevation—where, by mechan-laminations, the present deal mixture and chymical combinations, the present deal mixture and chymical combinations, the present deal mixture and chymical combinations, the present deal mixture and these were yet naked and mixture and founted parts, the former gave fifty seven of car. Indicate the former gave fifty seven of car. Indicate the former gave fifty seven of substrata were formed. But these were yet naked and mixture and the gravity from the granitic soil of Mount Bevern. Uff a lamination of more, to those of less elevation—where, by mechan-laminated parts, the former gave fifty seven of car. Indicate the gravity from the granitic soil of Mount de la Salle, the counter from the gravity from the gravity from the gravity from t them nourishment. Quackery, which at one time hertilizing principle of soils and manures.

cates, as they promised much and cost little. But causes of their comparative barrenness, (4). Vegetables may be regarded as the intermediate link in the great chain of creation, between ani-

differ.

What is this food that gives to plants their development, and maturity, and powers of reproduction? Lord Bacon believed that mater was the source of vegetable life, and that the earth the source of vegetable life, and that the earth known by the rame of calcined magnesia. In a dectine are silica, alumina, line, and magnesia lieve that they contribute to the food of vegetative that they contribute to the food of vegetative that they contribute to the food of vegetative that they contribute to the following on the second, of clay: the third of bones, river and siderations and experiments:

1. If earths do not contribute directly to the class of the first is the hasis of quartz, and magnesia lieve that they contribute to the food of vegetative that they contribute to the food of vegetative that they contribute to the food of clay: the third of bones, river and siderations and experiments:

1. If earths do not contribute directly to the class of the first is the hasis of quartz, and magnesia lieve that they contribute to the food of vegetative that they contribute to the food of vegetative that they contribute to the food of clay: the third of bones, river and siderations and experiments:

1. If earths do not contribute directly to the known by the rame of calcined magnesia. was merely its home, its habitation; serving to known by the name of calcined magnesia. In adnotive; or in any other words, if air and water keep plants upright and to guard them against the pure or isolated state, (1) these earths are whole exclusively supply this food, then would a soil of keep plants upright and to guard them against the extremes of heat and cold. Tull, on the other hand, (and after him Du Hamel) pronounced pulled, (2) and to this mixture is added the residuum alluvion.

rerized earth the only pabulum of plants, and on this opinion built his system of husnandry. Van Helmot and Boyle opposed this doctrine by experiments: the former planted and reared a cut-than the former planted and reared a cut-than the former planted and reared a cut-than of willow in a bed of dry earth, carefully displayed and protected against accretion by a time of weighed and protected against accretion by a time plant, so nerforated as to admit only rain and displayed and if magnesia, magnesian. Their properties producing the analysed plant; if silica be this producing the analysed plant; if silica be this plate, so perforated as to admit only rain and dis-and if magnesia, magnesian. Their properties producing the analysed plant; il silica be this plate, so perforated as to admit only rain and distilled water, with which it was occasionally moistened. At the end of five years, the plant was found to have increased one hundred and sixty four pounds, and the bed of earth to have lost, or it original weight, only two ounces. Boyle put seed a similar result. Notwithstanding the apparent conclusiveness of these experiments their rather than a practicular soil is dry, friable and porous; water entership coil to be this amagnesian. Their properties producing the analysed plant; if silica be this rewell known: a sandy soil is loose, easily movitoninant earth, then is the product obtained from ed. little retentive of moisture, and subject to extend the plant silicious; if lime prevails, then is the plant silicious; if lime prevails, then is the plant silicious; if lime prevails, then is the plant silicious; if lime prevails, then is the plant silicious; if lime prevails, then is the plant silicious; if lime prevails, then is the plant silicious; if lime prevails, then is the plant silicious; if lime prevails, then is the plant silicious; if lime prevails, then is the plant silicious; if lime prevails, then is the product obtained from ed. little retentive of moisture, and subject to extend and product calcarious, &c. This important fact is well a similar result. Notwithstanding the apparent and sixty when many clouds and paste like when product calcarious, &c. This important fact is proved by De Saussure.

Two plants [the pinus abies] were selected the entrance of roots with great difficulty. A calca-the one from a calcarious, the other tram a granterious soil is dry, friable and porous; water entership to be a short of the other tram a granterious product calcarious. conclusiveness of these experiments, their authorisms soil is dry, friaole and porous; water enters nitic soil, the ashes of which gave the following rity was shaken, if not subverted, by others made without difficulty; roots penetrate in products: by Margraff, Bergman, Hales, Kirwan, &c. &c without difficulty, and (being already greatly difficulty). vided) less labour is necessary for it than clay

(1) See Gisbert's experiments on pure earths and their

proved that the earth, in which the willow cutting nor niggardly, if (as Fourcroy asserts) the purest sand was planted, could absorb these matters through the a mixture of quartz, alumina and sometimes of cal-tarious matter. Speculative Geology is romance, and does and that a glass case could alone have prevented borrow her theory of soils. The alternation of heat such absorption. Hunter, finding that oil and such absorption. Hunter, finding that oil and and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and dryness, decomposed the mount and cold, moisture and cold, moisture and dryness, decomposed the mount and cold, and cold, moisture and dryness, decomposed the mount and cold, and cold, moisture and dryness, decomposed the mount and cold, and cold, moisture and dryness, decomposed the mount and cold, and co

or other, has made its way into all arts and sei- Magnesian, like calcarious earth, is light, p rous ences, could not easily be excluded from agricul-ind friable, but like clay when wet takes the conture. Hence it was, that the Abbe de Valemont's stency of paste and is very tenacious of water, prolific ligitor, & De Hare's & De Vallier's pow-lit refuses to combine with oxigen or with the alders, &c. &c. were believed to be all that was ne-kalies: is generally found associated with granit, cessary to vegetation, and found the more advo-gneiss and schiste, and is probably among the

bors of Bennet, Priestly, Saussure, Ingenhouz, divisibility of the former it is owing, that the lat-Sennebier, Schieder, Chaptal, and Davy, &c. &c. ter are enabled to push their roots into the earth; gous and sometimes foreign from their own nather and organization of the following the source of the following the the action of winds and rains; and to their pow-1st. Of earths, and their relation to vegetation, er of absorbing and holding water, the advantage Of six or eight substances, which chymists have of a prolonged application of moisture, necessary of longer or shorter duration. Thus far the denominated earths, four are widely and abun-for useful to vegetable life. But besides performdantly diffuses, and form the crust of our globeling these important offices, there is reason to be-

٠	Gran Potash Alk and Mussulphates Carbonate of lime Carbonate of Magnesia Silica Alumina Metalic oxides	itic soil.	Calcarious sui
•	Potash	3 60	15
	Alk and Mussulphates	4 24	15
r	Carbonate of lime	46 34	63
t	Carbonate of Magnesia	6 77	00
i	Silica	13 49	00
-	Mumina	14 8G	16
S	Metalic oxides	10 52	90
o t	2d en	PERIMENT	ı.

whole product.

3d EXPERIMENT.

ples, the product of the soil having in it no silica. would, notwithstanding partake of that earth, of water on vegetation. Plants were accordingly taken from Reculey de Though, (a soil altogether calcarrous) and the result was a very small portion of silica.

These experiments says Chaptall, leave little if any doubt, but that vegetebles derive the earthy matter they contain from the suil in which they

grow. (6)

2d. Of water, as an agent in vegetation :

Seeds placed in the earth, and in a temperature above the freezing point, and watered, will develope; that is, their lobes (7) will swell, their roots descend into the earth, and their stems rise into the air. But without humidity, they will not germinate; or deprived of humidity after germination, they will perish. When germination is complete and the plant formed, its rosts & leaves are so organized as to absorb water. The experiments of Hales prove that the weight of plants is increased in wet and dominished in dry weather; and that in the latter, they draw from the atmosphere (by means of their leaves) (8) the moisture necessary to their well being. Du Hamei (and after him Sennibier) has shown, that the filaments that surround the roots of plants, and which have been called their hair, perform for them in the earth, the office that leaves perform in the atmosphere, & that if deprived of these filaments the plants die.

It would be easy, but useless, to multiply facts of this kind tending to establish a doctrine not contested, but which after all does not assert, that water makes any part of the food of plants. On this point two opinions exist—the one, that this liquid is a solvent & conductor of alimentary juices; the other that it is itself an aliment and purveyor of vegetable food at the same time. The first opinion is abundantly established. Water when charged with oxigen, supplies to germinating seeds the want of atmospheric air and saturated with animal or ve\_ctable matter in a state of decomposition, or slightly impregnated with carbonic acid, very perceptibly quickens and invigorates vegetation. The second opinion is favoured by some of de Sau-sure's experiments. On these, Chaptal makes the following remark, which expresses very distinctly an approbation of the doctrine they suggest: 6 The chormous quantity of hydrogen (which makes so large a part of vegetable matter) cannot be accounted for but by admitting (in the process of vegetation) the decomposition of water, of which hydrogen is the principal constituent; and that though there is nothing in the present state of our experience that

| 0 | Scheder maintains the doctrme, that the earths found in plants are created there by the process of vegetation. This essay on this subject was crowned by the academy of Bertin, in 1891. His experiments were the first to det range the different quantities of sinca found in different kinds of grain

[7] Moisten a bean in warm water, and detach the s'an that covers it, and it readily divides into two

parts; these are called lobes.

[8] onnet's experiments show, that it is the under surface of the leaf that performs this function. The

upper surface has a diff rent office.

Correction - In copying the second section, an error escaped in relation to the Treedin prough; the p stage should have read thus-"the plough of the North of Europe, like that of this country, has the power of a wedge, and acts horizontally-that of Tuscany has the same direction, but very different form With the out line of a shorel, it consists of two melined planes, stoping from the centre, and forms a guttel and two ridges."

This was made to determine whether vegeta- truth ought to be presumed, from the analysis of likely to become troublesome -in order to prevent plants and the necessary and well known action this, you may watch your opportunity for a calm [ To be continued.]

From the National Intelligencer.

THE POTATOE. This valuable root is a native of America.---Whether it was here before the flood or not, is of their throats. no consequence to us. It is here now, and our without any of the above risks. acre will require about 15 bushels of seed. I prefer planting in the increase of the moon, though

directly establishes this doctrine, yet that itsethe plants. About this time the cut worm is morning, between day break and sun rise, when the firing three or four charges of gun powder over each acre, will affect them very seriously: the dose may be repeated as occasion requiresthis is much easier than pouring arsenic down

When the plants have got ten or twelve induty is to make the most we can of it. It is curi-ches high, the last ploughing may take place, when us enough to see the people on Potomac import, the furrows must be completely cleared up—the ing potatoes from New-England or Nova Scotia, bee must now, for the first and last time, follow, and sometimes from Ireland, when they might to rectify what the plough has missed; the rows, just as well be exporting them for little more when finished, ought to be at least twelve inches than half the price. In this respect they are al-higher than the furrows. It is now that the plant most as wise as some of our wine drinkers, who begins to be of use; the tender leaves make tenrather than miss their favorite beverage, will run der greens. I have often wondered to see peothe risk of the plague, the gout, an Algerine war ple tunning ready to break their necks, over hill -while, at the same time, they might obtain and dale, among briars and rattle snakes, togatlspruce beer of the very first quality from their er wild herbs, and perhaps poisonous ones too, own country, for less than half the price, when they had plenty of good wholesome potatoe The run tops close to their door. But now comes the pofor foreign articles, so prevalent in our country, totoe in bloom. How beautiful! If you have often makes me think that it potatoes were bees, the blossoms should not be molested until the brought from the moon at 10 dolls, per bushel, apples appear; if not they may be pulled off with they would find purchasers. However, as there about two inches of the stem-these boiled and are some few among us, who wish to raise pota- seasoned with butter are a delicacy that perhaps toes, and don't know how, I will give them the loonarchy never tasted nor ever thought of. The following directions, which may serve until they pulling off the blossoms r balls, when first formget better. It is supposed that the farmer has al-led, is of service to the plant, as what would supready some knowledge of the nature and strength port the apple will now return to the root. To of soils, so as to know the quantity & quality of ma-perform this operation, would be fine amusement nure requisite to get a crop. I have seen 1000bush- to children; consequently no loss of time to the els of cow manure put on an acre of poor land, which farmer. Those who dig putatoes before they are has brought and ought to bring 400 hushels of portion should count the cost and act accordingly, tatoes. No doubt but plaster would answer a It is very easy to know when they are ripe by the good purpose on sandy or gravelly soil. The death of the tops. If the weather be warm, they ground ought to be ploughed eight inches deep should be dug up to prevent a second growth, and well harrowed. The easiest method of plant, and put in the cellar mixed with some sand. ing is with the plough, in rows, three feet apart: Deep cellurs, (say ten feet) are cooler in sumthe seeds, containing one eye, or two at the most, mer, and warmer in winter, than shallow ones. ought to be eight inches apart if they are allowed Bow this happens when both are filled full, I cave any chance to grow; each seed should weigh the Philosophers to explain. The potatoe binn third of an onnce Avoirdupois. At this rate an length to be frequently overhauled during the winter and spring, in order to move the small and decayed ones from the pile, as one rotten the difference may not be much; the practice of one will soon spoil a dozen. Also, if they are changing the seed seems to be useless; when peo-found to be watery, from a wet season or soil, a ple have got a good kind I would advise them to very small piece may be cut off from the top or keep it. I have seen potatoes raised for twenty seed, so called; this will help them considerably. years on one plantation without changing the All this may be done in the evenings without any seed, any farther than from one field to another loss of time. It is likely that slaves will not like and back again, without any visible afteration. the employment; and why should they? After As to planting, if the ground be rich enough with- working all day for nothing, it is hard enough to out manure, the furrow for the row need not be work at night too; but men who carn their own more than four inches deep, otherwise it ought to living as they ought to do, will think no hardship be six. In div, sandy land put the seed under of it. I have no doubt but potatoes might be the manure : if otherwise put it on the top. The kept in the vicinity of an ice house, at a certain seed and manure being put in the jurrow, they temperature, for many years. I have seen them can be covered with the plough, no matter how eighteen months old, as sound, hard and deep. About six or seven days after planting, go sweet, as when they were taken from the over the field with a horse and light harrow. By earth. The uses that the potatoe may be applied this means the rows will be nearly leveled with to are numerous. As an article of food, they may out strong the seed, if the person at the harrow be used many ways; such as roast, horied, stewknows how to manage it. When the plants have ed. fried or baked as one ingredient in bread to risen about three tirches, above the ground, the eat warm, although some people that ove them horse and plough may be sent through them to don't know how to cook them either way. As plough the carth from the rows about four inches a medicine, they are not without their virtues, deep, leaving the rows eight inches wide with the being of an opening quality. In fact, I never p ant in the middle of it. When they have got knew a great potatae eater have the gour to a a, to six locites, a small portion of earth may be smous degree. The gratings of this root, ploughed up to them, taking care not to cover after being gently pressed and the juice

or burns. I had almost forgot that the juice makes [method he has attempted. excellent starch. Now let us see how it stands in the line of luxuries; the potatoe will make coffee and whiskey, but when we consider that not one in a thousand knows how to make the former, and prejudice being in the opposite scale, it will be of little consequence, while the latter will do more harm than good. If we turn to the animal world we will find a great call for this favorite root. Its value to horses is well known to farriers. I might of this act, shall be and hereby is appropriated for go on fa shew how beneficial it would be for cows. sheep, goats, or even cats, dogs and fowls; but the tic manufactures, within this state; that the said reader will probably be tired and the printer also. PATRICK.

P. S. It is not too late yet to plant potatoes.

FROM THE RALEIGH STAR.

Reveipt for making Cider, and preserving it sound for years.

Three months ago, I was at the house of Nicholas Nall, Esq. who lives near Deep River, at the upper exvery superior quality; and as the habitual use of cider is eminently conducive to health, insures sobriety, imparts the agreeable sensation of strength and vigour, and is a pleasant beverage that can be afforded at a small expense; I took care to be exactly informed of his manner of making, refining and preserving it, in hope Mr. Nall had in his cellar, as well as I now remember, about 8 or 10 hogsheads and 50 or 60 barrels of cider of different ages-the oldest was best; nor did be think any fit to drink until it was at least a year old - That which I drank, was three years old and it was excellent. was too small to drink it of the age he wished: but intended to fill another cellar. There copy Mr. Nall's receipt as he gave it to me in writing in April last.

"All apples fit to be eaten, will make good cider -Throw out all imperfect, sorry, and sun burnt apples, thin and watery. The advantage of slow pressure is in making the liquor run pure. Let your casks, previously during the future fermiontation. In a week, rack off the cider carefully, ceasing the moment you observe it to run muddy: Now stop the cask more finals. In ten days perfectly filled; and when filled for the last time, to be bunged close in a deep, dry cellar, never to be moved until drawn for use. Late cider need not be racked until March, and then one racking, or at most two, will be sufficient. Be very careful that no water, not even the little that will adhere after raising a cask, is mixed with the cider. The smallest quantity of rain water will render eider unfit to keep. The addition of any quantity of distilled spirits is not only useless, but in-

Mr. Nall's method is the result of long experience, and its success justifies me in recommending it to the public. Thope it will be tried. CALVIN JONES. Raleigh, July 25, 1819.

N. B. Lought to have mentioned that Mr. Nall told me, he had for many years tried various plans for clarifying eider to prevent its sonring, by means of milk, is inglass, scalding and seumning, filtering through sand, ounty, or in two contiguous counties, and the

In act to improve the Agriculture of the State of New York.

I. BE it enacted by the People of the State of New-York, represented in Senate and Assembly. That the sum of ten thousand dollars per year, for the term of two years from and after the passing the promotion of agriculture, and family donesum shall be distributed among the several counties of this state, in the manner following, to wit: To the county of Albany, three hundred and fifty dollars; to the county of Allegany, seventy five dollars; to the county of Broome, one hundred dollars; to the county of Caynga, two hundred and fifty dollars; to the county of Chataque, lifty dollars; to the county of Chenaugo, two hundred dollars; to the county of Clinton, one handred and twenty five dollars; to the county of Columbia, three hundred dollars; to the county of tremity of Moore county, where I drank old older of a Cortland, one hundred and twenty five dollars: to the county of Delaware, two humbred dollars: to the county of Dutchess, four hundred dollars: to the county of Essex, one hundred and twenty five dollars; to the county of Franklin, one hundred dollars; to the county of Genesee, two hunthat advantage might accrue in the publication of it dred and fifty dollars; to the county of Greene. two hundred dollars; to the county of Herkimer, two hundred dollars; to the county of Jefferson, two hundred dollars; to the county of Kings, seventy five dollars; to the county of Lowis, one His oldest order I did not taste, as he intends it as a hundred dollars: to the county of Madison, two treat for his executors. He complained that his stock hundred and fifty dollars; to the county of Montgomery, four hundred dollars: to the county of New York, six hundred and fifty dollars; to the county of Uneida, and that part of the county of The grand secret is in cleansing it from the filth and O-wego which formerly formed a part of the coundregs as early as possible. Each sort of apples are to tv of Oneida, four hundred dollars: to the counbe beaten and pressed by themselves. Two kinds of ty of Onondaga, and that part of the county of juice, both good, would, it mixed often make bad cider. Oswego which formerly formed a part of the as well as dust and trash-Beat your apples before much county of Onondaga, three hundred dollars; to mellowed; as they lose their strength, soundness and the county of Ontario, five hundred dollars; to spirit, if too mellow. Let them stand half a day after the county of Orange, three hundred dollars; to being beaten, before put into the press; then press the county of Otsego, four hundred dollars; to them slowly; discontinue it as soon as the juice appears the county of Putnam, one hundred dollars; to the county of Queens, two hundred dollars: to the county of Rensselaer, three hundred and well cleansed, be filled quite full, to permit the froth the county of Rensselaer, three hundred and and pumice to discharge itself at the bung -When the fifty dollars; to the county of Richmond, seventy fermentation abates, cover the bung closely with some-live dollars; to the county of Rockland, one bunthing, that may be lifted by the fixed air that escapes dred dollars; to the county of Saratoga, three hundred dollars; to the county of Schenectudy. one hundred dollars; to the county of Schoharie, rack it off a second time; and in fifteen days a third two hundred dollars; to the county of Sen ca, time. In every instance, the cask is to be clean and one hundred and lifty dollars; to the county of Saint Lawrence, one hundred dollars; to the county of Steuben, one hundred and fifty dollars; to the county of Suffolk, two hundred dollars; to the county of Sullivan, one hundred dollars: to the county of Tioga, one hundred and fifty dollars; to the county of Tomkins, one hundred and fifty dollars: to the county of Ulster, two hondred and fifty dollars: to the county of Warren, one hundred dollars; to the county of Washington, three hundred and fifty dollars; and to the county of Westchester, two hundred and fifty dollars.

2. And he it further enacted, That whenever an agricultural society shall be formed in any on-&c. &c. and found all useful; but is satisfied that free members thereof shall annually procure, or ratse

thrown away, make line poultures for fresh scaled quent racking or drawing is far preferable to any other by voluntary subscription, any sum of money, the president and treasurer shall make and subscribe an alidavit of the facts of the formation of such society, and of their having raised a certain -um, specifying the amount thereof; which affidivit shall be filed with the comptender of this state, who shall draw his warrant on the treasurer, for the payment of a sum equal to the amount of such voluntary subscription; not, however, in any case exceeding the amount to which such county or counties would be entitled according to the apportionment afore-aid.

3. And be it further enacted, That the several agricultural societies which may be formed in this state, shall elect such and so many officers as they may deem proper, all of whom shall be practical farmers; none of whom, however, shall receive any emolument from his office; and it shall he the duty-of such officers annually to regulate and award premiums on such articles and productions as they may deem hest calculated to promote the agricultural and manufacturing interest

of the state.

4. And be it further enacted, That each person to whom any premium shall be awarded, for any agricultural product, shall, before the receipt thereof make as accurate a description of the process used in cultivating the soil, and in raising the crop, or of feeding the animal, as may be; and shall in all cases describe the nature of the soil, the kind and quantity of the manure, the state thereof, and the time of the year in which applied; and deliver the same to the president of said society.

5. And be it further enacted. That the several presidents of the said societies, shall annually, within one week after the annual meeting of the legislature, transmit all such reports or returns to the office of the secretary of state, to be by him kept safely till demanded by the board of agricul-

ture, hercinafter named and organized.

6. And be it further enacted. That the several presidents of the several agricultural societies within this state, or a delegate to be chosen by each of the said soci ties, shall form a board of agriculture for this state; who, on the first Monday after the annual meeting of the legislature, may convene in the capitol, in the city of Albany, any five of whom shall form a quorum; may elect a president, secretary, and such other officers as they may think proper, receive and examine all such reports and returns as aforesaid, and select for publication, such of them, and such other essays as they may judge advisable; and shall annually publish a volume at the expense of the state, to be distributed by means of the said agricultural societies, to the good people of the state not exceeding fifteen hundred copies of such volune: which president and secretary shall continue in office during the continuance of this act.

7. And be it further enacted, That the treasurer of this state shall, animally pay, on the warrant of the comptroller, to the said board of agriculture, one thousand dollars, to enable them to purchase and distribute among the several agricultaral societies, such useful seeds as they may deem proper, and to defray such other necessary expences to promote the object of this act, as are not observate provided for; and said board shall annually account with the comptroller for the expenditure of said money.

8. And he it further enacted, That it shall be the daty of the secretary of this state, as son as may be, to cause this act to be published in at reast

one Lewspaper, printed in each of the great dis-[mine is now ripe, and my oats which were sown] tricts of this state.

From the Winchester Gazette.

#### CHILE WHEAT.

We have the pleasure of communicating to our agricultural friends the copy of a letter from Abel Seymour, Esq. of the neighbourhood of Moorfield, a gentleman of observation and intelligence, to the Hon. Hugh Holmes, of this place. The minute account given by Mr. Seymour of his experiment and success in cultivating a small quantity of the CHILE WHEAT, will no doubt he read with more than ordinary interest by those interested in the raising of this valuable commodity. It is hoped, that the miniature experiment of Mr. S. will induce our farming gentlemen to purchase some of the seed, and extend the experiment upon a more enlarged scale.

" Moorfield. July. 14, 1819.

"I enclose you an ear of Chile Wheat, as you are a wheat raiser. It appears to me it will be a valuable acquisition to this country: -whether it will succeed hest to be sown in the Fall or Spring of the year must be proved by experiment—there is no doubt, on my mind, but it will do in the Spring. My son was in Baltimore in March last. and procured a little, perhaps half a spoonful of the seed .- He returned on the 2d day of April-I had just finished reading Mr. Bland's report. and had made up my mind that the wheat of that country must make itself from the moisture in the earth at the close of the rainy season. I could not safely imagine that nature had formed any country where large fields of wheat could be watered by streams to be taken on high land for eighty or one hundred miles (the length of the Valley of Chile, from the mountain to the Pacific) without a very dense population, which I did not understand from Mr. Bland's book, existed.\* This circumstance together with the doubt whether the little seed we had might be kept safe until the fall season, caused me to direct my son to sow it in my rye field, in a place from which we had taken a fodder stack, and left a vacancy of about five feet in diameter. The fore part of April, with us, was cold and dry, so that it did not vegetate until the 18th and 20th of the month, the rye by this time, had got so high as almost to smother it.

However, it grew on with a broad strong blade. of a very hluish cream color; on the 8th day of June I observed some ears shooting out, and on the fourteenth they were fully out. When I saw the ears I was much pleased with their appearance, and with a sickle cut the rye from around it, and thus gave it a little room for the air to reach it—it grew to the height of about three feet and a half: some of the stalks were four feet high; the ears are in the form of the enclosed, very full of grain, but short—some I measured were two and a half inches in circumference, having four, and sometimes five grains abreast-they do not embrace the stem as our wheat does, but set with the end to the stalk with grains irregularly set around the top-the smallest ears of it have as many grains as the largest of my crop wheat. The drought for the last three weeks, with us, was very severe, which prevented some of the top grains from filling properly. We had also put it in a poor gravelly spot of land. I am of the opinion that it would be well for gentlemen who have got

a week before it, are not. If it does not deterioate it will be valuable.

"I remain dear sir, with respect, Your obedient servant, ABEL SEYMOUR.

Hon. Hugh Holmes.

Unwilling on account of its curinsity, to shell the ear sent to me by Mr. Seymour and thereby ascertain its contents, I have counted the grains on the ear, on the supposition of five being abreast as stated by him, (and I believe correctly) and found twelve in each row, which made the grains amount to 120-thus exceeding the best average of golden straw from 40 to 50 grains, the purple straw about the same, and the Snider, Jones or Lawler, about 80.

HUGH HOLMES.

Winchester, July 19, 1819.

NOTE BY A CORRESPONDENT.

\*All the valleys of Chile, have the appearance, to the spectator, while in them, of being perfectly circular, oval, or oblong. This appearance is owing to the height and steepness of the ridges on each side, and to the elevated knobs, that, here and there rise out of the middle of them, or to the projecting spurs of the lateral ridges, that often meet and form transverse ridges which. closing the view, gives to the valley a circular and amphitheatre-like appearance. The principal rivers of Chile, like those of the United States, make their way to the ocean, from their highest elevations in the mountains, directly across the valleys; the length of which, is uniformly found to be nearly north and south or parallel with the Andes. The valleys of Chile lie in successive ledges, like shelves or stair steps, one above another, from the first plane, the surface of which, is nearly on a level with the top of the bluff range of promontories which frown over the margin of the ocean, to the foot of the lolty cordellera, the tops of which are, two thirds of the year, clad in snow. Following the direct route from the capital to Valparaiso, notwithstanding the crossing of prodigious ridges, the descent, from valley to valley, is very evident. On looking at the country from sea, the valleys being completely hid, it has the aspect of one enormous range of mountains, from the shore to the snow capt top; the crags and spurs appearing to rise immediately one above another, without the least interval

The principal valleys, directly east of Valparaiso, are the Tablas, a great part of which might, very probably, be watered by the stream that crosses it. As yet it is used only for pasture, particularly for sheep, of which there are prodigious flocks on it. This valley is about fifteen miles wide The valley of Casa Blanca, which is about the same width, is crossed by a very sbundant

and bold stream.

The valley of Curricabee about eighteen miles wide, is very fertile, and the greater part capable of being watered. And lastly, the valley of St. Jago, about the same width, and one of the longest and finest in Chile. The vall-ys generally present a very even surface, with some few gently elevated waves, and swells; and they all decline more or less from east to west; that of St. Jago, immediately round the capital, a beautiful plane, has been found by actual measurement to have a declension from east to west of one and a half inches to

every one hundred and fifty yards.

The annexed diagram will enable the reader to comprehend the manner of watering the wheat fields and vineyards in Chile. Let A, B, C, and D, represent a wheat field of from twenty to fifty acres. The water is conducted from the river of the valley, along the upper side of the field, to a ditch, from  $\Lambda$  to B. The field is then, after the wheat is sown, crossed with small trenches, such as might be made by running a plough two or three times in the same furrow, from the ditch A, B, to the opposite side of the field D. C. These small trenches are about eight or ten fect apart, and have the water turned into them, from the ditch, by a few sods being thrown into it, at 1, 2, 3, 4, 5 and 6, just below their several intersections with it. Vines are usually planted in rows, four feet apart one way, and about eight feet the other; and these vineyards are irrigated, during the summer, in a manner similar to the wheat fields. of the seed to keep a part to sow in the spring; The whole operation is extremely simple, & is attended

with very little trouble. As far north as the latitude of Valparaiso, some of the hill sides, having a favourable southern aspect, are sown with wheat, which is brought to perfection without any other moisture than the autumnal and winter rains, and the oozings from the hill side; but the flat, of no valley, in that latitude, or to the northward of it, will bring wheat to perfection without irrigation from the rivers.

Some of the Chileno farmers purposely leave growing in their wheat fields, a great number of bushes of the shrub called espino, or thorn, which bears an abundance of small tufts of flowers, of a bright gold colour, which are very fragrant. These bushes, which are suffered to grow to a size somewhat larger than our sweet brier, they say, cherishes and protects the wheat from the fervid rays of the sun, and holds it up. The espino, of Chile, has a very strong resemblance to our common locust.

I mention this circumstance for the consideration of our farmers, in consequence of what you, Mr. Editor, remarked not long since, relative to the social quality, or the antipathy of plants. Although the causes have never been, that I know of, in any way explained, yet the existence of the principle, of this vegetable affinity, or repulsion appears to have been well known to the ancients, and in different countries. Plutarch tells us, that among the regulations of Solon, respecting the planting of trees, one of them, directed, "that he, who planted any tree in his field, was to plant it at least five feet from his neighbour's ground; and if it were a figtree or an olive, nine , for these extended their roots farther than others, and their neighborhood is prejudicial to some trees, not only as they take away the nourishment, but as their efflurius is noxious." And in Venezuela, where the cacao, or chocolate nut, is cultivated to great advantage, we are told, that the delicate cacao cannot bear the unbroken rays of the vertical sun; and, that it must be shaded by some more robust plant in its immediate neighbourhood; that the crytrine, which the Spaniards call bucare anaveo, is, therefore, always planted with cacao; that associated with some plants, the cacao will wither and die; but, that such is its strong friendship and predilection for the shade, society and effluvia of the erytrine, that with it for a companion, it attains its greatest perfection and fruitfulness.

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TO THE FDITOR.

dated \_ Hive-House, Feb. 31, 1819. Dear Sir-In the American Former of the Ot inst, you requested a communication from those who were furnished with the Chile Wheat, brough in by Judge BLAKD. In compliance with this . quest. I now furnish you the result of my seeding I seeded one rint of this Wheat in my garden in drills, about the 15th Nov. a period too late is expect a good product. The Wheat, contrary t my expectations, was very little injured by the frost, and was very promising early in the season. but owing to the drought, some weeks before, and at the time of ripening, the grain is much inferior in quality to the imported seed; but the quantity twelve months of this time, to admit the passage has far exceeded my expectations. I have this day of boats on both rivers. cleaned and measured it, and the product is 58 PINTS. This will induce me to seed it with care the next fall, and at a proper season; and I am in clined to think, from the appearance of the head and the above circumstances, that it will prove a valuable Wheat. Yours.

E. LLOYD.

### Miscellaneous Selections.

# INTERNAL IMPROVEMENT.

Extract of a letter from a member of the North Carolina Catawba Navigation Company, to a gentleman in Camden, S. C.

I have great pleasure in stating to you, the ra-South Carolina, and, especially by those living contiguous to the Waterce, we shall, in a very short time, have the satisfaction of seeing boats running on its waters for more than 150 miles above the dividing line of the two states.

The liberal appropriation made by the state of South Carolina, at its last session, is worthy the high character of the state; and, if discreetly managed, will confer additional importance on the reputation she already enjoys. Its amount, I un derstand, is abundantly sufficient to effect the object in view, and I look forward with increased anxiety, to the formidable obstructions which your Engineer will have to encounter at Rocky Mount and Graves' Island. Were these impediments removed, a safe and easy conveyance would throw the whole surplus produce of the counties of Mecklenburgh, Lincoln, Iredell and Burke. into the markets of Camden and Charlestown.

It is a fact but lately known, although well ascertained, that the produce of the upper country. even within six miles of the Blue Ridge, could. with a removal of the present existing obstructions below the boundary line, be transported to but little expence. This circumstance taken into the citizens of Camden, and many of the planters, for a few years past, have been compelled to give for provisions, namely corn, bacon, &c. will, I apprehend, be of itself, a sufficient incentive to di rect their attention to this important object.

present engag d in cutting a Canal around the spection, I am induced to believe, that, together Fure the first of January, 1820.

The other shoals on the Muin River, are but "ght and will admit the passage of boats with erfect safety, in a very few months. · However, be attention of the Company, during a part of the spring and summer [has been and] will be directed to the South Fork of the Catawba, many earts of which will require as much labor and probably more expense than the Main River itself However, should the contractor succeed in procuring as many laborers, as he is instructed to employ, we may reasonably expect the whole un dertaking to be sufficiently advanced within

#### AN ENGLISH SUMMER.

Description of an English Summer, in the year 1768-ex tracted from a letter of Horace Walpole, dated June 15.

"I perceive the deluge fell upon you before it reached us. It began here on Monday last, and then rained near eight and forty hours, without and to execute all the foreigners. He did not obey it; but intermission. My poor hav has not a dry thread remonstrated against the cruelty of the act. to its back. I have had a fire these three days. In short, every summer one lives in a state of mutiny and murmur, and I have found the reason: it is because we will affect to have a summer, and we have no title to any such thing. Our poets learn their trade of the Romans, and so adopted I have great pleasure in stating to you, the ra-pid progress that is now making in the Catawba the terms of their masters. They talk of shady they shall not be disappointed." She has arrived with-Navigation, within the boundary of North Caro- groves, purling streams, and cooling breezes, and Navigation, within the boundary of North Caro- we get sore throats and agues with attempting to and there was some doubt (to say the least of it) whether lina. Much zeal is manifested by the company. and I have little doubt, but that if it meets with a realize their visions. Master Damon writes a corresponding promptitude, by the citizens of song, and invites Miss Chloc to enjoy the cool of the evening, and the deuce a bit have we of any such thing as a cool evening. Zephyr is a north- may see the hand writing on the wall; but we shall not east wind, that makes Damon button up to the chin, and pinches Chloe's nose till it is red and blue; and then they cry, this is a bad summer, as delay, and may ultimately defeat the consummation of if we ever had any other. The best sun we have our wishes; that while her ministers were openly, in is made of Newcastle coal, and I am determined parliament, admitting the right of Spain to cede what never to reckon upon any other. We ruin ourselves with inviting our foreign trees, and make our houses clamber up hills to look at prospects. llow our ancestors would laugh at us, who knew there was no being comfortable, unless you had a high hill before your nose, and a thick warm wood at your back. Taste is too freezing a commodity for us, and, depend upon it, will go out of fashion conduct of Don Onis, and to satisfy us that he had no

"There is, indeed, a natural warmth in this country, which, as you say, I am very glad not to enjoy any lunger—I mean the hot house in St. Stephen's chapel My own sagacity makes me very vain, though there was very little merit in it. I had seen so much of all parties, that I had very little esteem left for anv; it is most indifferent to me who is in, or who is out, or which is set in the any point on the river, with the utmnst ease and pillory, Mr. Wilkes or my Lord Mansfield. I see the country going to ruin, and no man with brains consideration with that of the high prices which enough to save it. That is mortifying; but what signifies who has the undoing it? I seldom suffer myself to think on this subject; my patriotiscan do no good, and my philosophy can make me be at peace."

At the late sale of town lots in the town of Cahaba, (the spot selected for the seat of government of the fu-Mr. Ahernethy, the Company's contractor, is at jure state of Alabama) some of the lots, unimproved of sand dollars!

ith the necessary Locks, it will be completed Extract of a letter from an officer on board the Hornet (to his friend in this City) dated New York, July 30.

"I have the pleasure to inform you of our safe arrival at this port, after a passage of 27 days from Cadiz.

"We have returned without the treaty being ratified, nor is it probable it ever will be. Captain Read left Madrid on the 22d June, at which time the Ministry were debating on the subject.

"The Marquis de Casse Yrujo (Prime Minister,) was banished from Spain with his family, a few days previous to our sailing; on account, it is said, of his being too warmly interested in our cause.

"There is a large naval force lying at Cadiz, with 18,000 troops, destined, it is said, for the protection of the Floridas, and not for South America, as was originally contemplated (Dubious.)

" An action was fought off Cadiz about the 15th June. between the Spanish government brig Voluntario, of 14 guns, and the Buenos Ayres government brig Indepen-dencia, of 18 guns, wherein the latter was defeated. The V. has arrived at Cadiz, much cut up. They both fought uoder the flag of the U. States.

"The officers and crew (70 in number,) of the late Patriot privateer Constitution, Captain Appleton Meach (of Baltimore) are at Cadiz, in dangeons. Gen. O'Donnel. Governor of that city, has received an order from the king to pardon all the Spaniards found on board that vessel,

"Cadiz is a bad market for American produce. A cargo of Baltimore superfine flour sold at \$8 50 per barrel, a few days before we sailed. Naval stores of all descriptions are equally dull."

The ratification of the Florida treaty was expected by out it. There was no ratification, as late as the 22d June. Caoiz, and an impression among some of the officers of the Hornet, that it would never take place. Should this be the case, can any one mistake the cause of it? We see the mysterious finger. Yet we shall be as well satis-fied that the hand is there—that the hand of Great Britain is in this thing; that it is her secret intrigues that now portion of her possessions she pleases and disclaim ng any right on their part to prevent it shey are secretly and slily plotting against us, and bidding off the reliuquishment of the Floridas by the bonus of the South American Bill. She may also urge upon Spain to hold off until we resort to a similar measure; nay, to make it a condition that she will ratify, provided we cut off all our resources from the Patriots of South America.

Should Spain refuse, she will be bound to disclaim the authority for going as far as he has gone. Should she refuse, a case of great delicacy and importance will come before us: What shall we do? This is a question which requires a cool head and much deliberation to decide. -Too much has already been hastily said by others upon it.

The rumour at New York of Spain's making war upon us is absurb. She dare not. She will not risk a war with us unless Great Britain edges her on, and she is too poor and pennyless to wish to do it. We think that Spain will neither seek a war with us, nor finally reject the treaty. Rich'd Enq.

The Chevalier Jaubert, who bad been sent by the French overnment to Cashmere, to procure some of the treats producing the precious wool which forms the material of the Shawls fabricated at that place, had been heard from on his return, having reached the city f Maria Pol, in the government at atherinoslaw, in Russia, bringing with him a flock of 1300 goats At tho date of his letter, (17th December last) the thermometer of Reamuar marked fifteen degrees of cold, and the snow was a foot deep, which did not appear to affect the flock ture state of Alabama) some of the lots, unimproved of unfavourably, as they are accustomed to browse on the course, as the place is yet but a plantation, or prece of mountains of Th bet, wher a great degree of cold preshoals of Mountain Island. This is a work of conwoods, sold as high as \$5,025; and 1 4 lots, the number vails. This immense flock was to proceed to the dosia,
siderable labor and expanse but from a recent in the hot of the physical phy France.

MR. GUILLE'S ASCENSION.

the first time in America, an aeronautic ascension, so often attempted, was actually executed, and in a man ner that gave universal satisfaction. We have often been surprised that the frequent exhibitions of this kind in Europe, should draw forth so large crowds and And the bold course, which first it steer'd directs." excite such acclamations are always expressed by the spectators; but in seeing this our surprise has ceased. The scene was interesting beyond all expectation.

At an early hour in the afternoon every carriage was in requisition for the gardens, and Browdway, the Row-ery, and all the roads leading to that place were crowded, and at about halt past 5, all the avenues became impassible. The lower part of the town was nearly depopulated. Every tree, fence and shed in the vicinity of the garden was covered with spectators, anxiously waiting to see the balloon ascend. To gratify those who were in the garden, the balloon, was partially inflated about five o'clock, and suspended about 10 feet from the ground. At 5 minutes past 6, it was completely inflated and immediately rose about 40 fect, in which onably the two parts ought to go together -as they bout 40,000 miles, running in various directions, situation it was suffered to remain but a short time. At do in the last copy we have seen. Unquestionably and bearing intelligence to every community in the 18 minutes past 6, Mr. Guille advanced to the centre of the circle, and after making some little examination of the cords which connected the parachute with the bal loon, he took leave of his wife, bowed gracefully to the spectators, and took his position in the basket. In an instant the balloon began to ascend. The parachite Notice. It is requested that the names of the Gentlewas evidently lower on one side than the other, and men who intend to take copies of Smith's H story of the much apprehension was felt for the safety of the voyager. At the moment of ascending, a gust of wind sprung up from the northwest and drove the balloon directly over the tall poplars in the garden, so that the basket was forced upon them and carried off some of the small branches. On clearing the trees the finest scene all the maps in perfect preservation. To this is prewas presented; the balloon ascended with majesty and fixed an account of Smith's early adventures in various contractors. As the object of this establishment was presented; the balloon ascended with majesty and fixed an account of Smith's early adventures in various rapidity to a great height, the wind wafting it towards parts of the world, his heroic exploits in the wors is public and individual convenience, it has not entered in the standard of the government to make it was detached from the bolloon, and was seen for near-style of ancient simplicity and gallantry. The ad- a source of revenue, which would, by levying a tax ly half an hour gradually descending; apparently over dition of this to the history originally proposed to be

manifested for the fate of the Eronaut, when it was ory as becomes an American, will be happy to have communication with its agents in every part of the ascertained that he reached the earth in safety, having this additional matter at this increase of expense. But nation, distant friends may hold frequent and familiar landed at Bushwick, near Williamsburg, Long Island,

feet health and spirits.

and we sincerely hope he may receive the remunera-first proposed, or the history with the adventures of tion he so eminently deserves .- Marc. . ldv.

the following fanciful lines from Darwin's Botanic ded to.

Sec on the shoreless air the intrepid Gaul Lanneh'd the vast concave of his buoyant ball! Journeying on high, the silken castle glides, Bright as a meteor, through the azure tides ; O'er towns and towers and temples wins its way, Or mounts sublime and gilds the vault of day. Silent, with upturn'd eyes, unbreathing crowds Pursue the fleating wonder to the clouds And flush'd with transport, or benumb'd with fear, Watch, as it rises, the diminish'd sphere. Now less and less ! and now a speek is seen! And now the fleeling rack obtrudes between: The calm phitosopher in either sails, Views broader stars, and breathes in purer gales; Sees, like a map, in many a waving line, Bound earth's blue plains, her hand waters shine; See, at his feet the torky tightings glow, And bears innoxious thunders roar below. hise, great Mongolfier! urge thy venturous flight, High o'er the moon's pale ice-reflected light, High o'er the pearly star, whose beamy horn Hongs in the east, gay karbinger of morn; Leave the red eye of Mars on rapid wing, Jove's silver goards and Saturn's crystal ring; Leave the fair beams, which issuing from afar, Play with new lustre round the treorgian star. Shun, with strong oars, the Sun's attractive throne, The sparkling zodise, and the milky zone, Where headlong comets, with increasing force, Through other systems bend their blazing coalse: For thee Cassione her chair withdraw-

For thee the Bear retracts his shaggy paws Vesterday a novel scene was presented to us. For High o'er the north the golden orb shall roll, And blaze eternal round the wandering pole. So Argo, rising from the southern main, Lights with new stars the blue etherial plain; With favoring beams the mariner protects.

#### SMITH'S HISTORY.

We invite the reader to the Notice respecting Smith's History of the Settlement of Virginia ... We are delighted that the present editor has ta- wide domain, connecting its various parts, and difken it in hand. It is a curious, scarce and valua- fusing life and vigour to the whole. The increase of ble memoir; and it is peculiarly worthy of encour-this department has been more rapid in its progagement. The first copy we saw was unaccompatess than that of any other in the government In cied by Smith's Adventures, written by himselfout those Adventures are far more romantic and ingallant spirits that " ever lived in the tide of times "

Settlement of Virginia, &c. may be returned as speedily as possible to W. W. GRAY, printer, Richmond.

still can one venture, in these tones, on a change in the The engagement of Mr. G. was honourably fulfilled once let the Editor know whether they prefer the history Smith prefixed! Any communication on this subject ad-

[We are so much gratified to learn, that this most rare and valuable History is to be rescued from the " mouldering rums" of time, in which it had nearly perished, that we here take the liberty of offering, unsulcited, to receive subscriptions, gratuitously, for any copies of the work which persons in this city may wish to have. For ourselves, we would sooner take it at double its P. rter, had one constructed at Georgetown, which was price, than lose a lear of it. Give us every fragment not on the same plan of those which Thave built at Phithat can be "gathered up" from the pen of Captain ladelphia. Smin.-Ed. J. Farmer.

Extracts from an act of the Virginia Assembly, passed the 22d February, 1-17.

1st. Be it enacted, that any person who shall hereafter apprehend any runaway slave attempting to cross the Potomac, and deliver him to his master, or any person authorised to receive him shall be entitled to a reward of twenty dollars, and mileage as heretofore allowed by law.

2nd. Be it further enacted, That any person who shall hereafter apprehended any runaway slave, belonging to any person resuling within this commonwealth, at any in the states or Delaware, Pennsylvania, New Jersey or New York, or in the state of Ohio, to a reward of lifty dollars and in all cases of the apprehension of a runaway slave, in any of the states aforesaid, the person apramaway. The distance to be proved by oath, &c.

TRANSPORTATION OF THE MAIL.

The following interesting statement, relative to the United States' Mail Establishment, is taken from an excelient address of Col. Richard M. Johnson, of Kentucky, to his constituents-published in the Kentucky Gazette of the 16th April last.

" Among the departments of government, the post office department claims a rank with the most important for general utility and convenience. This astonishing machine, like arteries and veins to the hody politic, extends through every part of our 1793 there were but 195 post-offices in the United States. There are now about 3300. The whole eresting than even the History itself--Unquesti |length of the post roads in the United States, is athe subscribers ought to call for them both. Then Union. The mail in all its diversified movements, they will have a complete picture of one of the most is transported nearly 8,000,000 of miles in a year -more than 150,000 miles every week-making a distance nearly equal to a circuit round the globe Notice. It is requested that the names of the Gentle-leach day—with an average of about one post office on who intend to take copies of Smeth's H story of the to every lift en miles. The annual amount of postage is about a million of dollars, and the annual The falitor informs the public, that since the propolado ance to 3800 post masters, is about 300,000 sals for publication were issued, he has been so forth-dollars. The annual expense of transporting the note as to procure a complete copy of the history, with mail, amounts to nearly 700 000 dollars, to 900 Long Island; the balloon continuing in the mean time published, will increase the expense about fifty cents to accerd, till though evaluation of the set. The Editor is persuaded that every literary gest bond of our union. While the government is Till about 9 o'clock in the evening, much anxiety was gentleman, and every one who cherishes Smith's meni-furnished with the means of speedy and convenient landed at Bushwick, near Williamsburg, Long Island, still can one venture, in this times, on a change in the about 6 miles from Vauxhall garden. He reached town terms of publication? Some expression of the public conversation—and intelligence of every description about haif past eight o'clock with his parachute, in per- wish on this subject is called for. Will gentlemen who is diffused among all classes of citizens, and in every have subscribed, adopt some measures which will at neighbourhood of the union, through the medium of this establishment "

The ascent of Monsieur Guille recalls to recollection dressed to the printer, W. W. GRAY, will be duly atten. A new improvement in propelling Boats

by Horse power.
The subscriber who is sole Patentee of the plan now in use, respectfully calls the attention of the merchants and citizens in general of Baltimore, to the following observations on this invaluable invention.

This principle has been in use three or four years at York, Philadelphia and other places. Commodore

I now feel confident, that I can propel a Boat of the same dimensions as the Steam Boat, Virginia, with 17 or 18 horses, with the same velocity, with which the Virginia now moves, for the space of 24 hours, and as can be clearly demonstrated, with less than one fourth the cost, she (the Virginia) being at the daily expense of from 60 to \$90, while under way. Whereas my Boat should only incur the expenditure of 515 per diem. A boat on my construction, including horses and all apparatus complete, can be built for 10 to 12000 dollars, when a Steam Roat of the same measurement with her appar tus, will cost from 40 to 50,000 dollars nother very forcible argument is, that my Boat will carry double the quantity of freight. It is the opinion of place in the states of Maryland and Kentucky, shall be many of the most intelligent gentlemen of this city, entitled to a reward of twenty-five dollars; at any place that this is the only true plan than can succeed for great distances. The unlimited advantages, which may accrue by adopting this improved method, being too numerous for inscrtion, I shall only add that these gentlemen who are desirons of seeing our country flourish. prehending shall be intitled to receive twenty-five will do me the favor of calling at Mr. Sheeve's Wheelcourts for every mile he shall necessarily convey such wright shop, west Pratt-street, near the three Tun tavern, where a model of the machinery may be seen. W. HART, Patence.

ON DUELLI G.

DOCT. FRANKLIN to DOCT. PERCIVAL. Possey, July 14, 1734.

I received yesterday by Mr. White, your kind letter of May 11th, with the most agreeable present of your new book.\* I read it all before I slept, which is a proof of the good effects your happy manner has of drawing your reader on, by mixing lors of the great osage tribe, arrived here a few days knowledgments for the pleasure it has afforded me. government and its officers, &c. &c.

were used to determine law-suits, from an opinion two hours, and stemmed the current with great case. that Providence would in every instance favor truth hoats worked by wheels, immediately conceived the but whichever is killed the point in dispute remains and a trial made, in which she ron up the Missouri, unsettled. To this purpose they have a pleasant about two miles and back, in 30 minutes. upon it; but I do not see how that will mend the matter. For if you kill me, I shall stink too; and if I kill you, you will stink, if possibe, worse than you do at present. How can such miserable sinners as we are entertain so much pride, as to conpinion would call that sovereign a tyrant, who should put one of them to death for a little uncivil lannearly completed the survey of the Niagara River, and every one of them makes himself judge in his own schooner Ghent, which arrived here on Sunday from cause, condemns the offender without a jury, and Eric. undertakes launself to be the executioner.

With sincere and great esteem, I have the honor to be, sir, your most obedient, and most humble B. FRANKLIN servant.

P. S. Our friend, Mr. Vaughan, may perhaps communicate to you some conjectures of mine re- having learned that the dry weather has greatly injurlating to the cold of last winter, which I sent him ed the gardens in the vicinity of New-York, are sending in return for the observations on cold of professor large supplies of our excellent vegetables to that Wilson. If he should, and you think them worthy so much notice, you may how them to your Pho-Iosophical Society,† to which I wish all imaginable success. Their tules appear to me excellent

"Moral and literary dissertation, 2d edition.

† The Paulo-ophical Society of Manchester, of which Dr. Percival was one of the principal founders and orna-

To the Editor of the Enquirer.

Sir ... Under the belief that it is your wish to enconrage Agriculture as far as it is in yo r power, several of your subscribers are induced to request that you would, through the medium of your widely enculated paper, make the enquiry where a few thrown away in establishing Banks and Lotteries, and seed of the Guinea Grass can be obtained Doct. Brown, of Tennessee, made a communication respecting this grass to the Philadelphia Agricultura. Society, in 1313.\* Your compliance will o-SUBSCRIBER. blige yours,

Surry, July 31, 1819

Et P Should any reader be able to give the information requested, it will grat fy the editor to buy it before the public.

that if it should be in the power of any of our subscribers arriving in this state-going to clear farms in the west

to procure some of the Guinea grass seed they woulbe good enough to put a few, say half an onnee, in a letter, and address it by mail, to the editor of the . Imerican Farmer, with such notices of its growth, qualities, uses and product as they may think worthy of remark.

ST. LOUIS, MO. JUNE 30.

Sans Neif, a chief and one of the principal counsellittle anecdotes and historical facts with your in- lay before his excellency, on his arrival here, the diffistructions. Be pleased to accept my grateful ac- culties which at present exist between them and the

Missouri Expedition .- This expedition has not yet It is astonishing that the murderous practice of sailed, but is daily expected to proceed. On Sunday duelling, which you so justly condemn, should conthe steam boats Johnston and Expedition, proceeded time so long in vogue. Formerly, when duels from the mouth of Missouri to Belle Fountaine in about

and right, with victory, they were excusable. At idea of applying them to the barges, bound up the Mispresent they decide nothing. A man says some-souri with United States' troops, stores, &c. In about thing, which another tells him is a lie. They fight; three days, he had one of the barges rigged with wheels

It is highly gratifying that the government has placed little story here. A gentleman in a cuffee-house this prompt, decisive, and distinguished officer, in the desired another to sit further from him. Why so? command of this important station. This improve-Recause, sir, you stink. That is an affront, and ment which he has put in these barges will prove of are notined that an advance of two pollars must now

missioners are now we understand, in the vicinity of within three weeks, signify their desire to have the pa-Batavia, and may be expected to arrive here in a few per continued, by enclosing \$2 for the half, or \$4 for days. The important question relative to the location the whole year by mail, at the risk and cost of the edceit that every offence against our imagined honour and construction of a Hirboor at this place, will be de-litor. merits death? These petty princes in their o- finitely concluded upon by them, previous to their

guage, though por,'ed at his sacred person. Yet will start for the west in a few days, in the government

ALBANY, August 2.

Hoy and Garden Vegetables.—We understand, that many of our farmers in this neighbourhood; are already shipping their new hay to New-York, where it sells from 6 to 7 pounds a ton; while in Albany it is almost a drug at one third of the price. Our gardeners also, market.

# THE FARMER.

BALTIMORE, FRIDAY, AUGUST 13, 1819.

Our object in copying the Act for the encouragement of Agriculture, passed by the Legislature of the State of New-York, is to exhibit to the Legislature of Maryland, an example worthy of their imitation. We must confess that our anticipations are not sauguinc. This State is so cut up by conflicting local views, and so perpetually distracted by party spirit; that we fear nothing will be done upon a great and liberal scale to promore the cultivation and improvement of its internal re-

It half the time, money and talents, that have been as putting some men in, and tumbling other men out of office, had been devoted during the last fifteen or twenty years to the promotion of the interests of Agriculture-opening Roads improving the navigation of Creeks and Rivers, and the encouragement of Educaand enviable would now be the reputation of the state but in March, 1819 and the actual condition of its population.

Under the operation of a wise internal policy, having for its object the advancement of Agriculture and the \* This communication is highly interesting, and shall good of the people, instead of the acquirement of epherological forms of the Armoral power and petty office we should not long with merican Funner.—In the mean time, we carnestly request ness the degrading spectacle of ship loads of emigrants

J. HAMM

tern wilderness, while so much land remains a barren waste, not one hundred miles from this populous city.

Let but the Legislature hold out that encouragment to agricultural pride and emulation, which has been extended to them by the governments of New-York and Massachusetts-and we shall not suffer under the odiom of having it said that—the quality of the land considered, the average product of Maryland is far below that of other states, to which nature has been so much less bountiful. We trust among the first acts of the next Legislature of Maryland, will be one for the encouragement of Agricultural Societies.

#### TO CORRESPONDETS.

Another number on Hedging will appear, probably, in

A friend in Virginia, has had the goodness to send us the justly celebrated Appress of the Madison—late President of the United States, to the Agricultural Society of Albemacle County, Virginia, of which he is the President We shall commence, if we do not finish the mblication of it, in the next number of the American

#### TO SUBSCRIBERS.

This is the last number of the American Farmer that will be received by subscribers to the Maryland Censor who have not paid up arrears. Those who have paid you must fight me. I will fight you if you insist and saving of expense.

you must fight me. I will fight you if you insist and saving of expense.

you must fight me. I will fight you if you insist and saving of expense. r -- a failure on their part to make said payment, will BUTFALO, July 27. paper discontinued, which will be done accordingly, but the numbers will be reserved for those who may

> Sales of Country Produce, ascertained by actual sales and reported for the American Farmer, by W. H. De Wright-Commission Merchant Bultimore

> TOBACCO - Montgomery County, \$8 1-2 to 15, sales, 2 lilids, crop. a \$10-3 do. do. a \$9-t do. Second, \$7, Calvert County, sold by J. SPICKNALL.

WHITE WHEAT, 1 4 to \$1 6-Red, do. 98 to \$1 -t'orn 50 to 54-Oats, 40 to 45-Rye, 59 to 55, Beef, best Butcher's, 10 to 12 1-2 cts-Chickens, per doz. 250 to \$3-Yeal, per lo. 10 to 12 1-2, best pieces-Mutton, 6 to 8-Suet Beef, 3 to 10-Pork, 3 to 10-Eggs, per doz. 18 3-4,. Butter per lb 25 to 37 1-2-Potatnes, new crop, per peck, 37 to 50-Onions, pr peck, 37 to 50-Hay, per ton, \$17-Straw, do.

No alteration in the prices of N. Carolina Staples, except in the article of Tar, which is selling for \$1.75.

JAMES HAMMERTON, begs leave to inform his Priends, and the Public, that he has got for sale in Lexington Street, two doors from Paca Street, under the Store of L. HOLMES, BALTIMORE.

# Cobbett's Field & Garden Seeds and B00KS.

A large assortment of the choisest kinds of White Piesh. ed Tormp Seed, and of the first quality; and he has an assortment of Cabbage edd, and other kinds of Field, and Garden Seed, for Sale, which can be warranted true tion and the Useful Sciences, how much more proud and no d; the above Seed, were imported by Win. Cob-

N. B James Hammerton has for Sale, a few copies of Wm. Cobbets Year's Residence in the U. States of . Inerica. And, also a few copi s of Cubbett's Grammar of the

J. HAMMERTON.

August, 13th, 1819.

# PRICES CURRENT

#### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

				d٥
ARTICLES.	1	RETAIL	PRICES	ha
BEEF, Northern mess) -	bbl.	15		lis
No 1 wholesale.		13 t1	]	sp:
No 2 > -	lb.	`` 16	1	in
Butter, Ferkin, wholesale.		18		rу
Coffee, first quality,		33		90
second do		27 27	28	
Cotton, Twist, No. 5,		45		
No. 6 a 10,		46	50	H
No. 11 a 20,	1 1	53	80	
No. 20 a 30,		80 33	1 20	
Chocolate, No. 1, No. 2,	1 1	28		
No. 3,		25		CIT
Candles, mould,	box	20	22	SI
dipt,		18	19 scarce	
spermaceti, -	lb.	10	15	
Cheese, American, Feathers,		60	65	
Fish, cod, dry	qtl.	3 50	,	H
herrings, Susquehannah,	bbl.	2 75	relail	
mackarel, No. 1 a 3 - shad, trimmed, -		7 75	9 7 87	
Flour, superfine,		5 50	6	
fine,	bbl.	5	5 50	
middlings,	1	4 50	5 4 25	Si
rye,	cask	4 α none.	4 25	
Flaxseed, rough, cleaned,	bush			1
Flax,	lb.	do		
Hides, dryed,	1	12	15	н
Hogs lard,		12 25	13 30	п
Leather, soal,	gal.	62 1-2	75	
New Orleans, -	8	75		
sugar house,	١.	I		
Oil, spermaceti,	gal. bbl.	1 50 18 a	20	SI
PORK, mess or 1st quality, - prime 2d do	001.	16 a	17	1
targo 3d do	1	14 α	15	1
Plaster,	ton	5		
ground	bbl. lb.	1 75		
Rice, SPIRITS, Brandy, French, 4th proo		2	3	П
peach, 4th proo	f	1 25	J 50	
apple, 1st proo		75		1
Gin, Holland, Ist proc do. 4th proc		I 50		
do. N. England	"	50	60	1~
Rum, Jamaica,	1	1 59	2	S
American, 1st proc		75	100	i.
Whiskey, 1st proc Soar, American, white,	lb.	35		
do. brown, -	1.0.	9		
Sugars, Havana, white,	1	19	1	H
brown, N. Orleans, -		12 25	13	ŀ
loai, lump,	ь.	20		
Salt, St. Ubes,	bu .			
Liverpool, ground,	<b>.</b>	7.5		
Shot, all sizes,	lb. cwt	12	1	1
TOBACCO, Virginia fat, do. middlings,	CWt	6 50	1	
Rappahannock,	1	5	5 50	
Kentucky, -	,,	6 50		
small twist, manufactured,	lb.	25		
pound do TEAS, Bohea,		6:		1
Souchong,	lb.	7.		
Hyson Skin	ì	73		
Young Hyson, Imperial,	-	1 2		4
WOOL, Merino, clean,		8		
	L			1
unwashed, -	-	40		1
crossed, clean,		6	5	
crossed, clean, unwashed, -		6.3	5	
crossed, clean, unwashed, - common country, clean, unwash	ed	6. 3: 3: 2:	5 7 5	
crossed, clean, - unwashed, - common country, clean,	ed	6. 3. 3.	5 7 5	

### POETRY.

Selected for the Boston Guzette.

Messrs. Editors...If the following little piece of poetry does but give half the pleasure to your readers, that it has given to me, I think they will thank you for publishing it. Would that more of that sweet and lovely spirit of contentment, which in a wife breathes so great a charm around the connubial state, where to be found in all the walks of life. That spirit which makes every thing delightful and every thing happy, and blossoms even sorrow itself into joy.

#### THE PEASANT AND HIS WIFE.

HE. THE long, long day, again has pass'd
In sorrow and distress:
I strive my best—but strive in vain,
I labour hard—but still remain
Poor, and in wretchedness.

SHE. Nay, we have health—you love your wife— And she returns its flame; Want still is absent from our cot, God gives us breath to soothe our lot, What more cao you desire?

IE. I wish'd to earn a little sum, My dearest wife for thee; I wish'd, by toiling day and night, To gain some wealth that might requite Thy fond fidelity.

SHE. No wealth repays fidelity,

Nor gold nor monarch's crown;

My heart which doth to thee incline,
Finds all its love repaid by thine,

And smiles at fortune's frown.

E. But ah! to see thee live in want, It fills my soul with care; That thou so noble, just and good, Must slave and toil for daily food, That drives me to despair.

SHE. I gaily work [God knows my heart]
Contented at your side:
More Joys than wealth can give I prove,
To share thy sorrows and thy love;
Thy fatthful heart's my pride.

HE. But who, when I am snatch'd from thee Will husb 'thy trembling sights? And when our babe shall weeping say "Oh mother! give me bread I pray!" Who then will heed its cries?

SHE. God! whom the worm and sparrow shields,
Man in his need can aid:
He'll be my comfort when thou'rt fled—
The orphan's sire will give him bread—
O! be his will obc'yd.

HE. Wife of my heart, how great thou art! Thy love is all my weal; I feel so proud of one like thee.— Thy love and thy fidelity Inspire me with fresh zeal.

### AGRICULTURE.

**-0.** 

Thou first of arts, source of domestic ease, Pride of the land, and patron of the seas, Thrift Igriculture! lend thy potent aid; Spread thy green fields where dreary forests shade; Where savage men pursue their savage prey, Let the white flocks in verdant pastures play; From the bloom'd orchard and the showery vale Give the rich fragrance to the gentle gale; Reward with ample boon the labourer's hand, And pour thy gladdening bounties o'er our land. Columbia's sons, spurn not the rugged toil; Your nation's giory is a cutter d soil.

Rome's Cincinnatus, of illustrious birth, Increas'd his laurels while he till'd the earth: L'en China's Monarch lays his sceptre down, Nor deems the task unworthy of the crown.

### MISCELLANY.

Hartford (Mirror,) August 2.

#### WELLS' PRINTING PRESS.

We are pleased to state that Mr. John I. Wells, an ingenious mechanist of this city, has at length so far perfected his PATENT LEVER PRINT-ING PRESS, as to offer it publicly for sale. We witnessed it in operation on Thursday last, and perhaps some account of it will be acceptable to our brethern of the type.

Mr. Wells states, that from the application of the power of levers end-wise, in expressing linseed oil he became fully convinced that it exceeded all other mechanical powers. It is now about four years since he made his first experiment upon an old press. Since that time he has been constantly making experiments upon every part of the press which admitted of improvement, and the has succeeded in every effort. Perhaps it may be deemed high ground, after the deserved reputation which Mr. Clymer's presses have acquired;—but we are nevertheless of the opinion [and we have witnessed the operations of both for mure than two years] that Mr. Wells' press excels bis. The construction of it is more simple and compact, and its impression is very power-ful and even.

ple and compact, and its impression is very powerful and even.

In order that a proper estimate of the power of this press may be formed, it may not be improper to

this press may be formed, it may not be improper to subjoin a short description of it. The frame, platten, and several other parts are of cast iron; and the weight of the cast and wrought iron, is about 1500 lbs. The power is obtained by two upright levers, footing in the centre of the platten; within a strong circle upon the plate. These levers are 15 inches in length, one and three fourths of an inch square in the body, and four inches wide at the ends. They move in sockets of the semicircle of half an inch; falling back in the centre, two inches, from a perpendicular line, -this admits of the rising of the platten. They are governed in this joint, and forced, nearly to a straight line by two horizontal levers attached in connection with the arm or bar, to the back part of the press, -which, in gaining the power are brought nearly to a straight line. The platten is raised by a spindle, suspended upon a balance lever, by a balance weight. It is governed in its movements by grooves, attached to the inner edge of the body of the press.

The manner of banging the tympan, and securing the girths, is also new. Every part exposed to friction is steeled.

The present prices of these presses are from 325 to 350 dollars, as they are for size, which we think cheap, considering the cost of the iron, the amount of labor, together with their ease and durability.

Those of Cyrene desired Plato to make laws for them. I cannot, said he dictate laws to those whom plenty and prosperity have made incapable to obey.

PRINTED EVERY FRIDAY AT \$4 PER ANN.

FOR JOHN S. SKINNER, EDITOR,

At the corner of Market and South-streets,

BALTIMORE.

# AMERICAN FARMER.

# rtral ecopomy, internal improvements, news, prices current.

" O fortunatos nimium sua si bona norint

Vol. 1.

# BALTIMORE, FRIDAY, AUGUST 20, 1819.

Num. 21.

### AGRICUTURE.

### Mr. Madison's Address.

AN ADDRESS DELIVERED BEFORE THE AGRI-President of the Society.

ments, for that honorary distinction; with the assurances of my sincere desire to promote the success of an establishment, which has in view so valnable an object as that of improving the agriculture of our country.

The faculty of coltivating the earth, and of rear ing animals, by which food is increased beyond the spontaneous supplies of nature, belongs to man civilized society with their own consent, alone. No other terrestrial being has received a higher gift than an instinct, like that of the Beaver or the Ant, which merely hoards for future use the food spontaneously furnished by nature.

As this peculiar ficulty gives to man a pre-eminence over irrational animals; so, it is the use made of it by some, and the neglect of it by other com-

The contrast between the enlightened and refin. savage tribes. ed nations on some parts of the earth, and the rude where the civilized arts did not make their appear-

But closely as agriculture and civilization are allied, they do not keep pace with each other. There is probably a much higher state of agriculture in China and Japan, than in many other countries far more advanced in the improvements of civilized life. It is surely no small reproach to the latter, that fuller possession of the auxiliary arts, they should

It most not be inferred, however, from the capaciagricultural, is a matter of coarse.-The first steps what is more, with disinchination.

Without a knowledge of the metals, and the implements made of them, the process of opening and stirring the soil, is not an easy operation; tho' one perhaps not requiring more effort and contrivance, than produced the instruments used by savages in state at all? war and in the chase.

And that there is a disinclination in human nature to exchange the savage for the civilized life,

cannot be quest oned. We need not look for proofs heyond our own neighbourhood. The Indian Tribe have ever shown an aversion to the change. Ne ther the persuasive examples of plenty and com-. Fort derived from the culture of the earth by their CULTURAL SOCIETY OF ALBERNARLE, (VIRG.) white brethern, nor the lessons and specimens of ON TUESDAY, MAY 12, 1819. By Mr. Madison tillage placed in the midst of them, and seconded by actual sufferings from a deficient and precarious subsistence, have diverted them from their strong It having pleased the Society to name me for their propensities and habitual pursuits. In the same presiding member, I feel it a duty, on my first ap-spirit, they always betray an anxious disposition to pearing among you, to repeat my acknowledge- return to their pristine life after being weaned from lit by time, and apparently moulded by intellectual land moral instruction, into the habits and tastes of an agricultural people. A still more conclusive evidence of the bias of human nature, is seen in the familiar fact, that our own people nursed and reared in these habits and tastes, easily slide into those of the savage, and are rarely reclaimed to

Had the Europeans, on their arrival, found this continent destitute of human inhabitants, whose neighbours, from which it could be inferred that dangerous neighbourhood kept them in a compact even the germs of agriculture observed in their spots and agricultural state, and had their communical of maize, and a few other cultivated plants, would tion with the countries they left, been discontinued, ever be developed into the extent implied by an they might have spread themselves into the forests agricultural life. To that little resource combined where game and fruits would have abounded; and munities, that distinguish them from each other, in gradually forgetting the arts no longer necessary the most important features of the human character. to their immediate wants, have degenerated into

An admired historian,\* in his enquiry into the and wretched tribes on others, has its foundation origin of the American Savages, represents any in this distinction. Civilization is never seen with- such degeneracy as impossible. He lays it down as out agriculture nor has agriculture ever prevailed, a certain principle, that the necessary arts of life, when once introduced among a prople, can never be lost, that the dominion over inferior animals once enjoyed will never be abandoned; and that America consequently, must have been peopled from a country as uncivilized as itself. Yet he derives the American Savages, generally, from the Tartars, whose example must have taught them the use of certain animals, for which a substitute might have with so great a superiority in science, and in the been found in the Bison or Buffaloe at least (the same animal with the cow) if not in the Elk, the these great reformers, in ancient times, were resuffer themselves to be outstripped in the very art Moose, or the Caraboo. And he regards the Esby which both are essentially distinguished from the quimaux, a tribe distinguished in several respects, for their rude condition, as descendants from the Greenlanders, of the same modes of life with themtics and the motives of man for an artificial increase selves who were a colony from Norway, planted in of the productions of the earth, that the transition the 9th century; an epoch prior to which the Norfrom the hunter, or even the herdsman state, to the wegians had made such progress in the arts as to he capable of formulable maritime expeditions. in this transition are attended with difficulty, and The Greenland Colony therefore, must have undergone a degeneracy from the condition of its parent country. Without supposing the possibile of a transition from a better state of human society to a savage state, how would the learned bistoria have accounted for the introduction of the sava\_

> The bent of human nature may be traced on the chart of our own country. The manufacturer rea-

> > \* Dr. Robertson.

dy exchanges the loom for the plough, in opposition often, to his own interest, as well as to that of his country. The cultivator, in situations presenting an option, prefers to the labours of the field, the more easy employment of rearing a herd. And is the game of the forest is approached, the huntog life displays the force of its attractions. Where do we helold a march in the opposite direction; the nunter becoming the herdsman the latter a follower of the plough; and the last repairing to the manufactory or the workshop?

Such indeed is the fascination of that personal independence which belongs to the uncivilized state, and such the disrelish and contempt of the monotonous labour of tillage, compared with the exciting occupations of the chase, or with the indolence enjoyed by those who subsist chiefly on the mere hounties of nature, or on their migratory flocks, that a voluntary relinquishment of these latter modes of life, is little to be expected. We certainly perceive nothing in the character of our savage with the game furnished by the forests and by the lake or the stream, their population and habits are adjusted. There may be said, in fact, to be a plenum of the former; because it is commensurate with their food and this cannot be increased without a change of habits, which being founded in natural propensities, do not change of themselves.

The first introduction of agriculture among a savage people appears, accordingly, never to have taken place without some extraordinary interposition. Where it has not been obtruded by colonies transplanted from agricultural countries, as from Thenicia and Egypt, into Greece, and from Greece herself, amongst her savage neighbours, the revolution has proceeded from some individual whose singular endowments, and supernatural pretensions, had given him an ascendancy for the purpose. All garded as more than men, and ultimatery worshipped as gods. A very remarkable example of modern date, is found in the revolution from the Savage to the agricultural state, said to have been brought about by Manco Capac, among the Peruvians, to whom he represented himself as the offspring of the san.

Agriculture once effectually commenced, may proceed, of itself, under impulses of its own creation. The mouths ted by it increasing, and the supplies of nature decreasing, necessity becomes a spur to industry, which finds another spur, in the advantages incident to the acquisition of property in the civilized state. and thus a progressive agriculture, and a progressive population ensue.

out, aithough no determinate limit presents itself is the increase of food, and to a population comhensurate with it, other than the limited productiveness of the earth riself, we can scarcely be warrant ed in supposing that all the productive powers of its surface can be made subservient to the use of man, in exclusion of all the plants and animalnot entering into his stock of subsistence; that all the elements all combination of elements in the earth, the atmosphere and the water, which now support such various and such numerous descripcould be withdrawn from that general destination, and appropriated to the exclusive support and increase of the human part of the creation; so that the whole habitable earth should be as full of peoplants and animals not used by man.

The supposition cannot well be reconciled with that symmetry in the face of nature, which derives laws which operate in various departments of her redients servation, as well as within that of philosophic re-lame.

searches.

visible animals and plants.

his own accommodation.

Such a multiplication of the human race, at the expense of the rest of the organized creation, implies that the food of all plants is composed of elethe one or few plants best fitted for human use.

Whether the food or constituent matter of vegetables, he furnished from the earth, the air or water, & whether directly, or by either, through the mefor the inference that the food for all is the same.

flourishing in sandy, some in clayey, some in moist. and the qualities of plants are still more diversifi-stitution and character. - What are these? ed. That things so various and dissimilar in their

itself, being found to feed and perfect the graft .- variety of animals and plants. The exhalations & degrees, some greater, some less, the case is the

But, this operation has its limits. It does not ex-} perspirations, the effluyia & transpirations of these tend beyond plants having a certain affinity. The are continually charging the atmosphere with a he-Apple tree may be planted on the Pear or the terogeneous variety and immense quantity of matter Quince. It will not succeed on the Peach or the which together must contribute to the character herry. If the cases prove that the same food suf- which fits it for its destined purpose, of supporting ices for the Apple and the Pear, they equally prove the life and health of organized beings. Is it unthat different foods are required for the Apple and reasonable to suppose, that if, instead of the actual the Peach. It is said even, that the fruit from the composition and character of the animal and vegetions of created beings, animate and inanimate, Peach graft on the Almond, is not precisely the table creation, to which the atmosphere is now acsame with that from a Peach graft on a Plum.

It may be offered as another argument to the same effect, that all animal and vegetable decompositions answer indiscriminately as manures. The pile, as the spots most crowded now are or might fact is not precisely so. Certain manures succeed that the change might essentially affect the aptitude be made, and as destitute as those spots, of the best with certain plants. It is true, nevertheless, of the atmosphere for the functions required of it; that animal and vegetable substances in a decom. posed state, are generally manures for plants. Pish even an animal from the water, is successfully used economy of nature? new heauty from every insight that can be gained as a manure for Indian Corn and other crops. But into it. It is forbidden also, by the principles and this and similar examples prove only, that some inare the same in all animals and

the chemist, though as yet a fellow student as The earth contains not less than thirty or forty buch as a preceptor of the agriculturist, justly thousand kinds of plants; not less than six or seven claims attention to the result of his processes. From hundred of birds; not less than three or four hun- that source we learn that the number of known cle- when evolved by the latter, it is refitted for the redred of quadrupeds; to say nothing of the thousand ments, not yet decomposable, is between forty and -piration of the former; an interchange being thus species of fishes Of reptiles and insects, there are lifty; that about seven or eight belong to the or-kept up, by which this breath of life is received by more than can be numbered. To all these must be gans of plants, that different elements enter into each, in a wholesome state, in return Construction arded, the swarms and varieties of animalcules and the composition of the same plant; and that they minute vegetables not visible to the natural eye, but are combined in different numbers and in difference whose existence is probably connected with that of proportions, in different plants. Supposing then, as must be supposed, that these different elements, On comparing this vast profusion and multiplici-in their actual quantities and proportions, are aty of beings with the few grains and grasses, the dapted to the quantities and the proportions of the table class alone, would exhaust it of its life-supfew herbs and roots, and the few fowls and quadru existing varieties of plants; it would happen in so peds, which make up the short list adapted to the great a change as that in questio, with respect to wants of man; it is difficult to believe that it lies the number and variety of plants, that the quanti with him, so as re-model the work of nature, as ties and the proportions of the elements, would not it would be re-modelled, by a destruction, not on-be adapted to the particular kinds and numbers of ly of individuals, but of entire species, and not plants retained by man for his own use. Like the only of a few species, but of every species, with types of the Alphabet, apportioned to the words the very few exceptions which he might spare for composing a particular book, when applied to another book materially different in its contents, there would be, of some a deficiency, of others a useless tion might not be compatible with the continued surplus.

Were it less difficult to admit that all the sourments equally & indiscriminately nourishing all; & ces of productiveness could be exclusively approwhich consequently may be wholly appropriated to priated to the fond of man, is it certain that an ob encountered in one of the relations between the at-

mosphere and organized beings?

Animals, including man, and plants may be redium of the others, no sufficient ground appears garded as the most important part of the terrestrial creation. They are pre-eminent in their attri-Different plants require different soils; some butes; and all nature teems with their varieties the support of the other. And this period contracts and their multitudes, visible and invisible - I'o all litself at once to the imagination, when it is recolsome in dry soils, some in warm, some in cold si- of them, the atmosphere is the breath of life. De- lected that the immensity of the atmosphere is the tuations. Many grow only in water-and a few prived of it, they all equally perish. But it an-effect of its elasticity and rare action. We know subsist in the atmosphere. The forms, the textures swers this purpose by virtue of its appropriate con- from the harometer, that condensed to the specific

commodated, such a composition and character of that creation were substituted, as would result from a reduction of the whole to man and a few kinds of animals and plants; is the supposition unreasonable and that so great an innovation might be found, in this respect, not to accord with the order and

The relation of the animal part, and the vegetable part of the creation to each other, through the medium of the atmosphere, comes in aid of the relaws which operate in various departments of ner redients are the same in an analysis that of philosophic re-same.

The same is a fine that all the ingredients in each are the flection suggested by the general relation between the atmosphere and both. It seems to be now well understood, that the atmosphere when respired by animals becomes unfitted for their further use, and fitted for the absorption of vegetables; and that unwholesame one.

May it not be concluded from this admirable arrangement and beautitul feature in the econo.ny of nature, that if the whole class of animals were extinguished, the use of the atmosphere by the vegeporting power; that in like manner, if the whole class of vegetables were extinguished, the use of t by the animal class alone, would deprive it of its fitness for their support? And if such would be the effect of an entire destruction of either class, in relation to the other, the inference seems to press itself upon us, that so vast a change in the proportions of each class to the other, and in the species composing the respective classes, as that in quesexistence and health of the remaining species of the two classes.

The immensity of the atmosphere, compared with stacle to his indefinite multiplication would not be the mass of animals and vegetables, forms an apparent objection only to this view of the subject. The comparison could at most suggest questions as to the period of time necessary to exhaust the atmosphere of its unrenewed capacity to keep alive animal or vegetable nature, when deprived either, of gravity of Mercury, its rise above the surface of The atmosphere is not a simple out a compound the earth would be but about thirty inches; and organizations, their constitutions and their charac body .- In its least compound state, it is under- from the well pump, that condensed to the specific ters, should be wholly nourished by, and consist of stood to contain, besides what is called vital air. gravity only of water, which is nearly the same with precisely the same elements, requires more proof others noxious in themselves, yet without a portion that of the human body, its rise would be little more than has yet been offered.

Of which, the vital air becomes noxious. But the than as many feet: that is, a little more than five A case which has been relied on to prove, that atmosphere in its natural state, and in its ordinary times the human stature. It is found that a single different foods are not necessary for different plants, communication with the organized world, comprises human person employs in respiration not less than is that of grafting or moculating one kind of plan various ingredients or modifications of ingredients sixteen or eighteen times his own weight of comon another kind; the sap obtained by the stock for derived from the use made of it, by the existing mon air, in every twenty-four hours. In different respondent use of air for their purposes.

Other views of the economy of nature coincide with the preceding. There is a known tendency in all organized b ings to multiply beyond the degree necessary to keep up their actual numbers. It is a wise provision of nature-1, to guard against grazing farms or pens\* throughout the Island, were bundle of grass for horses: they are it all with great the failure of the species: 2, to afford in the sur-originally created, and are still supported chiefly by avidity.\* In August 1 took one of the grass roots plus, a food for animals whether subsisting on veg- means of this invaluable herbage. Hence the plen- and divided it into 28 parts, which were immediatectables, or on other animals which subsist on veg-ty of horned cattle both for the butcher and plant-ly replanted; every part took root, and the whole etables. Nature has been equally provident in er, which is such, that few markets in Europe can are now growing very finely, and seeding. I am guarding against an excessive multiplication of any furnish heef at a cheaper rate or of better quality of opinion this grass will make the best pasture we one species which might too far encroach on others, than Jamaica. Perhaps the settlement of most of can wish for. From former experience I have reaby subjecting each, when unduly multiplying itself, the north side parishes is wholly owing to the intro- son to believe the Guinea grass is perennial. It is to be arrested in its progress by the effect of the duction of this excellent grass, which happened a- easily managed, requires but one good boeing, after multiplication—1, in producing a deficiency of bout 50 years ago, the seeds having been brought which it will take care of itself Domestic Encyfood; and where that may not happen,—2, in profice the atmosphere unfavourable to life which were presented to Mr. Ellis, chief justice of With this little stock of information I commenceand health All animals, as well as plants, sicken the Island. Fortunately the birds did not live to ed my experiments. In the month of April, I preand die in a state too much crowded. It is the consume the whole stock and the remainder being pared a piece of ground in the city of Natchez, case with our domestic animals of every sort, where carelessly thrown into a fence grew and flourished, and planted the seed I had reserved for my own use, no scarcity for food can be the cause. To the and it was not long before the eagerness displayed, in holes two feet distant from each other. The same laws mankind are equally subject. An in- by the cattle to reach the grass attracted Vir, El- season proving unusually cold, and torrents of rain crease, not consisting with the general plan of na-lis' notice, and induced him to collect and propagate falling almost every day, all our small seeded crops ture, arrests itself .- According to the degree in the seeds; which now thrive in some of the most were either totally lock, or materially injured. The which the number thrown together exceeds the due rocky parts of the Island, bestowing verdure and vegetation of the Guinea grass seed was so much reproportion of space and air, disease and mortality fertility on the lands which otherwise would not be tarded, that until some time in May, I could discoensue. It was the vitiated air alone which put out worth cultivation "—Vol. 1. page 185.

From Willich's Domestic Encyclopedia, I make appearance, in some parts of the lot But some space somewhat enlarged, the effect would have the following extract. been slower, but not less certain In all confined situations, from the dungeon, to the crowded work- thus denominated as it was first discovered on the houses, and from these, to the compact population coast of Guinea, whence it was brought to Jamai- thered too green, appropriated their grounds to othof overgrown cities, the atmosphere becomes in cor |ca and afterwards imported into this countryresponding degrees, unfitted by reiterated use, for (England.) sustaining human life and health. Were the atmosphere breathed in cities and not diluted, and displa- maica next the sugar cane; for the breeding farms had the ground well hoed, and where two or mure ced by fresh supplies from the surrounding country throughout the 'sland were originally established plants came up together, I had the supernumeraries the mortality would soon become general. Were the and are still supported chiefly by means of the Gui-transplanted to spots where the seed had failed. surrounded country, thickly peopled and not refresh-nea grass which bestows verdire and fertility on When the plants attained such a size as would aded in like manner, the decay of health, though a lands that would otherwise not deserve to be culti- mit of it, I took them up, and dividing the roots, later, would be a necessary consequence. And vated. About ten years since it was introduced set them out when the soil was wet, and in this way were the whole habitable earth covered with a dense into the East Indies, where it is now successfully filled up the vacancy in the ground I had appropriapopulation, wasteful maladies might be looked for, cultivated, and grows to the height of seven feet, that would thin numbers into a healthy proportion it admits of being frequently cut, and makes excel-

[To be continued.]

# Guinea Grass.

Observations on Guinea Grass, by S. Brown, M. D. of Natchez, Mississippi Territory. READ, JULY 13th, 1813.

Six years ago, I saw one or two plants of the Guinea grass, in the garden of M. Treme, near the city of New-Orleans; but as I was, at that time, no way concerned in agricultural pursuits, it attracted hitle of my attention. Last autumn, I again
that the of my attention. Last autumn, I again
that the organization at Mr. Museau. met with it, in great perfection, at Mr. Munson's, which is divided and set out for the purpose of extend which I shared with my friends, in this territory, in Jamaica that it was difficult to procure seed that would Tennessee and Kentucky Mr Abner Green of vegetate, t gave him a quantity of it for his friends in Adams County had, for two or three years, culti- N. Carolina. vated this luxuriant grass, but I cannot learn that during the summer season.

knowledge of the history of this grass, and as I in many parts of that continent.

the following account of it.

"Guinea grasst a valuable species of herbage

In point of real utility, this plant ranks in Jabent hay: cattle eat it both in a fresh and dry state my manager, planted about the eighth of an acre of with great avidi y; hence the culture of this valua- very fertile land with plants obtained from Mr. ble herbage has been strongly recommended to the farmers of Cornwall and Devonshire .-- "

The subsequent remarks on the culture of this grass are by the late H. Laurens, of S. Carolina, and added to the foregoing by the American editor horses and inules and continued to supply them of that work.

\* Many of the pens of Guinea grass, in Jamaica, are a few miles north of Fort Adams Although Mr. ing the pasture grounds. Some of it was brought from Munson had not more than half a dozen of plants, Jamaica to New-Orleans, in June last, by captain Cahe obligingly fornished me with a fint of seed. Such perfection in Newton. such perfection in Natchez. He had been informed in

† I could have wished that the author of the Domestic Encyclopedia, had given us the botanical name and chaany person except Mr. Munson had followed his racters of this plant. For want of books I am unable example. From two acres of this grass, . r. Green to supply this deficiency. [A botanical description is subfed from thirty to forty or fifty animals every day joined to this paper.] Bruce in his travels in Egypt and Abyssinia mentions Guinea grass, but gives no account As neither Mr Green nor Mr. Munson had any of its character of properties. Who recollect to have seen it of its character or properties. I have conversed with

same with most other animals. Plants make a cor-, had determined to cultivate it, I sought for further! In the last spring I procured from Jamaica three information in such books as were within my reach, half pints of Guinea grass seed which I planted in In Bryan Edward's History of Jamaica, we have drills of one fourth of an acre of very indiffernet land The seed sprung, and soon covered the ground "Guinea grass may be considered as next to the with grass, four feet high and upwards. Being desugar cane, in point of importance, as most of the sirous of saving as much seed as possible, I cut one

> seeds remained six weeks in the earth, before they vegetated: and most of those gentlemen, to whom I had given seed, supposing them to have been gaer purposes, or suffered the weeds to smother the voung grass.

As soon as I could designate the Guinea grass, I

ted to my experiments.

At Percyfield, near Fort Adams, Mr. Oglesby, Munson, in the first and second week of May. They grew without any trouble except that of cutting down the first growth of weeds. On the 20th of June, he began to cut it for the use of the plough with as much as they could eat of it, during the whole summer. On the 25th of September, he wrote me, that he had cut it four times From 20 roots he obtained at the fourth cutting 250 pounds of green grass, and in two weeks, he would cut it the fif h time. The weather being very unfavorable, he did not succeed in curing the hay, by weigh-

<sup>\*</sup> It is curious to calculate the quantity which an industrious planter can obtain from one seed. Suppose that each of the 28 divisions of the root produced less than one half the number of stalks I obtained from one seed, for instance 50 stalks, this will give 1400 stalks in one season, from a single seed. sod, in a favourable year, these will all attain the n ight of at least seven feet.

<sup>†</sup> Persons who have resided in the vicinity of Natchz for 37 years do not recollect to have seen frost in May before this year, (18 2,) On the nights of the 3d on t 4th of May the hoar frost was so severe as to destroy almost all the tender plants in the territory.

pounds. At Mr. Winn's tavern, on the 10th of maturity-I have tried Mr. Lauren's method of di-fragrant, and horses prefer it greatly to the best ed 35 pounds. The number of stalks was, 184 answers very well for filling up such vacancies as 28th of September, when 1 sent Mr. Winn of suaded it is a very moderate estimate to allow to attained the usual size. In June and July this plan the hay with eagerness. every square yard 10 pounds at a cutting, when we will succeed perfectly well cut only three times in the season. This would give 30 pounds to every square yard, or 147,000 I have already obtained a husbel in return for three labour is necessary in gathering them; to ey are prepounds of green grass to the acre. But this pro- or four spoonfuls which I sowed on my lot in town served with difficulty, as we cannot choose a faduction seems so enormous, that I should not have |- I cut off about two feet of the top with the pan- vourable senson, and with us they are always to be ventured on such a calculation had I not the re- icle, as soon as the seed begins to fall, and after it carried to the stack on the backs of labourers. As spectable authority of Mr. Edwards to support me. is dry, comb out the seed with a coarse comb-1 the Guinea grass, on the contrary, retains its ver-He asserts that the Scots grass which he seems to hope to collect at least two bushels of seed during dure for several months, we can always cut it when consider far inferior to the Guinea grass, is so pro- the autumn. ductive, that one acre of it will support five horses the whole year round, allowing each horse 56 pounds of them are imperfect, the most certain mode of obper day, which is 102,200 pounds per acre.

of late, has excited so much attention in Europe, prepare a small spot of ground by burning the sur- ted with regard to this grass, the intelligent farmer will produce more than nine tons of hay per acre, face. On this they sow the seed, and tread them will soon perceive the advantage of cultivating it, and Mr Livingston bestows great encomiums on down with their feet. They then cover the spot instead of trusting to the scanty supply of blades, Lucerne, which requires much more cultivation with brush wood, to protect it from the action of which he obtains from his corn fields, with such than Guinea grass, and yields only 4500 pounds cold winds, and the seed from the depredations of a waste of time and human labour. A Pennsylvaper acre, at three cuttings. I am informed, that birds. As soon as the plants have attained the nia farmer who knows the advantage of a timothy & the best timothy meadows in Kentucky never pro- beight of two or three inches, and when the dan- clover meadow, considers it a folly to spend time in duce more than six tons per acre, in the most fa- |ger of frost is past, they should be removed to the |collecting corn blades. If Guinea grass succeeds vourable sensons But I am sufficiently aware of ground where they are to stand, where they readily as well with others, and in every season, as it has the fallacy of such calculations as I have been mak- take root ! A rich black mould, and a soil some- done this season with me, and as it had done ing. An experiment on a large scale is absolutely what moist, I think produces the most luxuriant in the West Indies for more than half a cennecessary to the attainment of an accurate result. grass, but I have had very little experience on this tury, the planters of the south will have no reason This season has been very wet, and grasses of all subject. I hope that before many years, it will be to envy their northern neighbours their luxuriant kinds, in this territory, have grown to an unusual tried in every climate in the United States, and on clover pastures, or their numerous ricks of timothy length. Planters have found it necessary to make every variety of soil. No kind of grass with hay. Meadows are generally the most fertile part the most vigorous exertions to save their crops of which I am acquainted, supports the heat of the of every farm where they exist, and their value is corn and cotton from being choaked with grass and sun so well, and this property, was it even less pro- augmented by their contiguity to the farm houses. weeds. But admitting that my calculations are extravagant, let us suppose that an acre will produce only one third of what I have stated, still we must consider Guinea Grass as the most valuable of all he examined in the last spring were perfectly green and the known grasses

I regret very much that Mr. Laurens did not mention the grounds upon which he expresses an

\* Sec certificate of Mr Oglesby.

have no nount it is so, out - this change, a map of stant, and an abundant supply of green food, and did not begin to cut that which I had planted suaded, it is annual, and that during the months of stant, and an abundant supply of green food, and on the stant of in Natchez, until the 16th of July, I then weighed September and October, it drops as much seed as is consequently enable the farmer, whatever may hapthe produce of one seed, in the presence of a num-requisite to produce the crop of the ensuing year.\* pen to his other meadows, to lay up a plentiful stock her of gentlemen at Mr. Robinson's Hotel. One Indeed it is necessary every spring to cut down the of hay, for the winter. If the hay is cut before the hundred and sixty four stalks, from six to seven feet superfluous plants in order to leave room for the grass has grown too tall, less than two days' sunhigh, growing from one root weighed together 30 spreading of these which are suffered to come to shine will dry it completely. It is uncommonly September, a second cutting, from one seed weigh viding the roots and transplanting them, and find it corn blades. This experiment was tried on the some of which measured ten feet 11 inches in happen from the imperfection of the seed, or from Natches, a small bundle of hay, which had been exlength. Some part of the lot in Natchez is very other causes, and which would occasion a great posed to the sun, about a day and a half. Nr. poor soil, and the grass on those places did not grow waste of labour and of land. The sooner in the Winn put it into the bottoms of his mangers, and higher than six or seven feet. But on a good soil, season this is done the better, for I did not find that covered it with the best corn blades he could proin a favourable season, in this climate, I am per those plants which were thus removed in August, cure. The horses threw aside the fodder, and ate

taining the young plants, would be that practiced by closure where it grows. If subsequent experience It is not pretended that the Fiorin grass which, the cultivators of tolacco, who, early in the season, should confirm the principal facts which I have staductive, would recommend it to the notice of the If Guinea grass is substituted for clover, timothy,

> \* Since writing the above, Mr. Munson informed mc that Mr. Laurens was correct, and that the roots which putting forth a great number of shoots.

> † After our early corn is bent down in this territory, we may plant Guinea grass between the rows, and when we take out the corn in October, the fields will afford ahundance of food for fattening cattle. I made a small experiment in this way, and have no doubt it may prove useful to those who have not a sufficiency of cleared land. If corn is planted on the succeeding March, the grass will not do any injury, as it does not vegetate until about the beginning of May. I think the seed might be sowed on wheat, in February or March, and as we cut our wheat about the 19th of May, the young grass would grow up among the stubble.

> † There is no more difficulty in transplanting it, than in planting tobacco or cabbage. A basket or two of the young plants will be sufficient for an acre. -One hundred plants would enable a poor family to keep a cow in town, or to supply a dray horse with green food all summer. How much would the general cultivation of this grass add to the comfort of the poor and middling classes of society!

> If he planters are beginning to be sensible of the im-

ing which, he intended to ascertain the loss in dry-pinion that his grass is perennial. In Jamaica, I agriculturalist, for, from the first of July, antil it is have no doubt it is so, but in this climate, I am per-killed by the autumnal frosts, it will anoth a con-

An acre of corn will not yield more than from I find very little difficulty in collecting the seed, \$\frac{1}{500}\$ to 1000 pounds of dry blades. Considerable the weather is the most promising; we can cultivate As the seeds regetate very slowly, and as many it on most plantations, near the place where we wish to feed it, or it may be carted out of the enand lucerne, at least seven eighths of all the grounds appropriated to those crops will be given to the cultivator for the purpose of raising sustenance for the human species. To what amount this change will increase the sun of national wealth, I leave to those to estimate, who are more conversant with such calculations.

Certificates respecting Guinea Grass. FEBRUARY 25, 1812.

Bear Sir-Your favour of the 15th inst. reached me yesterday. In roply to your inquiries re-

tall meadow oats, (avena elatior,) may be pastured from November until March, when the white clover begins to supply our animals with green food. This grows luxuriantly until the month of July. Then Guinea grass will furnish a still more grateful food, until our early wheat lots require to be cat down, in October or November. Wheat, tall meadow oats, clover, and Guinea grass afford green food every day in the year, in the climate of the Mississippi Territory. In what part of the Union can sheep be raised with so little expense? In most parts of Europe, and in the middle and northern States, the portance of winter pasturage in this climate, where snows seldom remain 24 hours. Wheat fields, and the multitudes of lambs.

<sup>†</sup> Panicum hirtellum Lin.

f For an account of this grass, see "Dr. Mease's Ar chieves of useful knowledge," Vol. II, No. III The plate of it given in that work might be read ly mistaken for the Bermuda grass in this Territory, which the late nuch lamented Mr. Dunbar, had so much mcrit in in troducing, and which will be found so valuable when the planters begin to perceive the folly of increasing the number of their slaves instead of breeding Merino sheep. Few men were more capable of forming a just estimate of the comparative value of the stock farm and the cotton plantation than Mr. Dunbar. The cultivation of cotton, he has often observed yielded a miserable return compared to the profits of a stock of Merinos. His solicitude to procure that precious breed of sheep, for some months before his death, ought to suggest to his survivors the true and perhaps the only means of restoring the country to its former flourishing condition.

you such information as I have been able to make, and cures without difficulty.

to folfill you wishes.

The first winter after I sowed the seed was fortunately mild, as it did not go to seed, in the wishing to have the ground well stocked with page 366. London, 1756. seed. I made but little use of it. It seeded much earlier this year, and much more abundantly. In and Panicum. the spring following, (that is last spring) it came out a vast number of branches, something like mum, in the following words: wheat, each of which may be transplanted. This wheat, each of which may be transplanted. This winter I have reason to believe the roots are also killed. It seeded in great abundance last fall, late, towards the top convolute and sharp, smooth, natural process, excepting that of vegetation. On this and much earlier than the two previous years. except at the edge, which is rugged, and at the head, we cannot do better than digest the experiments It continues green until it is killed by the frost, hase which is rough haired Panicle erect, a foot of the last of these chymists into a few distinct propo-On the river I am persuaded it would seldom if long and more; the lower branches in whorls the sitions; (2) ever be destroyed in the winter, I am respect-upper in pairs. Florets numerous, alternate, not germinate. 2. United with water this gas hastens fully, your obedient servant.

of green grass.

Wilkinson County, M. T. Oct. 10, 1812.

I have frequently examined your lot of Guinea Jamaica it flowers in October. grass at Percyfield, and having for many years been in the habit of viewing both timothy and clover meadows, in the state of Virginia, where Plaster of Paris has been used, I have no hesitation in saying, that one acre of Guinea grass will kind of grass.

Dr. BROWN.

M. BRONAUGH.

Percyfield, Wilkinson Co. M. T. Oct. 15, 1812.

I have fur many years been accustomed to both timothy and clover meadows, and have frequently as-isted in cutting some of the best in the state of Kentucky. At Percyfield, near Fort Adams, I cultivated a lot of Guinea grass, somewhat less than a quarter of an acre, from which I fed six or eight horses, during the summer of 1812, I planted it the second week in May, and began to cut it the 20th of June, and cut it five times before the 15th of October, and obtained from each plant (which occupied a square yard) about sixty pounds of green grass. I have frequently observed it to grow four inches in twenty-four hours. From the astonishing growth, and from the result of all my experiments, I have no hesitation in chymist described it to be Priestly first. (1) and Lavoisaying, that it will yield ten times as much grass ser after him, analysed it and found, that when pure, as any timothy or clover meadow I have ever seen. It is now (15th October) as green as it was in June, and animals are remarkably fund of different kinds of Air, began in 1776.

JOSEPH B. OGLESBY. Of Jefferson Co. Kentucky.

spring it put up from the old roots. The bran- of Holeus, the characters of which, he says, agree regular constituents are we to ascribe them? This ches I transplanted, and they grew luxuriently, pretty well with those of Panicum in general, but It seeded late in October. The roots were killed the flowers commonly grow very luxuriant, and design a state of accomposition, give by the frost, but in the spring following, the seed though often hermaphrodite, are generally observed it in great quantity. This abundance, combined with that fell came up abundantly, these plants I di |cd to be male and female, distinct, surrounded the fact, that vegetation is always vigorous in the vided, and transplanted about three acres of by separate involucres, and standing on distint neighbourhood of dead animal matter, led to the opinion, ground, but owing to the spring being very dry, pedicels, within the same calyx. See Browne's but experiments, more exactly made and often repeating to have the ground, well stocked with once 366. London, 1756.

Dr. Martyn treats of it under the genera Holeus is fatal to vegetation.

up in great abundance; when it got about botanic garden at Paris, where Guinea grass has ton feet high, I began to use it for my riding been with great care cultivated by Mr. Thouin. horses and work creatuaes, in all not less it is known by the name of Panicum altissimum, than thirty head, and the growth was so rapid, and it is very probable, that the frequent abortion processes of fermentation, putrefaction, respiration, that not more than half the ground was cut over, of either of the sexes, in a great number of flow. &c. and makes 28 parts out of 100 of atmospheric air. and some of this not more than once : my son, ers, was the reason why Browne, and other scruwho was more particular than myself, informed me it grew six inches in twenty-four hours. The seed sprouts about the time of the common were nf tanicum." Dr. Martyn describes it among it; for the coal which they give on combustion, is but grasses, coming up with a single spire and putting the panicums, under the name of Panicum maxi-

ovate, sharpish, pressed to the raceme; on short, not germinate. 2. United with water this gas masterns ovate, sharpish, pressed to the raceme; on short, regetation. 3. Air containing more than one twelfth HENRY FARMER, Esq. ABNER GREEN. | subflexuose pedicels. | Spickelets polygamous part of its volume of carbonic acid, is most favourable On the 16th of July, 1812, I weighed the first Outer valve of the calyx very small, inner oblong, to vegetation. 4. Turf, or other carbonaceous earth, cutting of one plant of Guinea grass, which grew sharpish, pale. Instead of the hermaphrodite, which contains much carbonic acid, is unfavorable to In Dr. Brown's lot. Its weight was thirty pounds there is often a female floret, with a male at the vegetation until it has been exposed to the action of of green grass.

Thomas Robinson. side of it, or a female alone, without the hermalatmospheric air, or of lime, &c. 5. If slacked lime by side of it, or a female alone, without the hermaphrodite and male. Seed, oblong, shining. In the lime shall have recovered the carbonic acid it lost

Directions for the culture of Guinea grass will he found in Dr. Martyn's edition of Miller's Gardener's Dictionary, under the article Holcus pertusus.

produce more than six times the quantity I have and the Domestic Encyclopedia, additional inforever known produced by an acre of any other mation may be obtained by referring to the Letters and Papers of the Bath and West of England plant, and the plant furnishes oxigen to the air. This Society, vol. 5, and Young's Annals of Agriculture, vols. 9 and 13. All agree in the extraordists to vegetation, what oxigen is to animal life; it gives nary fattening properties of this plant, and to support by purifying the figuids and rendering the soluur southern States it cannot lail of being of in- ids more compact. calculable benlit.

J. M. 4th. Of light, he

> FROM THE ALBANY ARGUS. Treatise on Agriculture. SECTION 111.

Theory of Vegetation. [Continued from No- 20-page 154.]

3d. Of air and its agency in vegetation: A seed deprived of air will not germinate, and a plant placed under an exhausted receiver, will soon perish. Even in a close and badly ventilated garden, vegetables indicate their situation; they are sickly in appearance, and vapid in taste. These facts sufficiently shew the general utility of air to vegetation; but this air is not now the simple and elementary body, that the ancient it consisted of about 70 parts of azote, 27 of oxigen

(1) See Priestly's Experiments and Observations on

specting the Guinea grass. I will with pleasure give it, both green and dry. The hay is excellent, and 2 of carbonic acid. In its ordinary (or impute state, it is loaded with foreign and light bodies, such as moneral, animal, and vegetable vapours, the seeds of plants and the eggs of insects, &c. It is to this aggregate, that vegetation owes the services rendered to it Guinea grass, according to Browne, is a species by air? And if not, to how many and to which, of its

tity it is unnecessary, and that in a certain proportion it

In hydrogen gas, plants are found to be variously af-Mr. Correa de Serra informs me, that in "the fected, according to their local situation; of iohabaants of mountains, they soon perish-it of plains, they shew a constant debility-but if of marshy grounds,

their growth is not impeded.

Carbonic acid is formed and given out during the It is composed (according to Davy) of oxigen and carcurbon united to a little oxigen, &c. Priestly was first to discover, that plants absorbed carbonic acid:

by calcination. 6. Plants kept in an artificial atmosphere and charged with carbonic acid, yield, on combustion, more of that acid than plants of the same kind and weight growing in atmospheric air. 7. When plants are exposed to air and sunshine, the carbonic acid of the atmosphere is consumed, and a portion of oxigen Besides the account of Guinea grassin Edwards, left in its place. If new supplies of carbonic acid be given to the air, the same result follows; whence it has been concluded, that air furnishes carbonic acid to the double function of absorption and respiration, is performed by the green leaves of plants. (3) 8. Carbon

4th. Of light, heat, and electricity, and their agency

in vegetation.

When deprived of light, plants are pale, lax and dropsical; restored to it, they recover their color consistency and odour. If a plant be placed in a cellar, into which is admitted a small portion of light through a window or cranny, thither the plant directs its growth and even acquires an unnatural length in its attempt to reach it. (4) These facts admitted, no one can doubt the agency, of light in vegetation; but in relation to this agency, various opinions exist; one, that fight enters regetable matter and combines with it, another, that it makes no part either of the vegetable or of its aliment, but directly influences substances which are alimentary; (5) and a third, that besides the last effect, it stimu-

(2) Recherches chymiques sur la vegetation, chap, ii.

(3) This was a discovery of Senneticr.

(1) It is by a knowledge of this fact, that gardeners bleach chicony and cellery, &c.

(5) See Fourcroy, vol. vini.

ral functions (6)

Without doing more than state these opinions, we proceed to offer the results of many experiments on this subject. Ist. That in the dark, no oxigen is produced, nor any carbonic acid absorbed; on the contrary, oxigen is absorbed and carbonic acid produced That plants exposed to light, produced oxigen gas in water. 3d That light is essential to vegetable transpiration; as this process never takes place during the night, but is copious during the 'ay; and, 4th. plants raised in the dark, abound in watery, and saccharine juices-but are deficient in woody fibre, oil, and resins; whence it is concluded, that saccharine compounds are formed in the night, and oil, resins, &c. in the day.

When the weather is at or below the freezing point, the sap of plants remains suspended and hardened in the albumum; (7) but on the application of heat, whether naturally or artificially excited, this sap is rendered fluid, is put into motion and the buds begin to swell. Under the same impulse, through the medium of the earth, the roots open their pores, receive nutritive juices, and carry them to the heart of the plant. The leaves, being now developed, begin and continue the exercise of their functions, till winter again, in the economy of nature, suspends the operations of the ma-Nor is its action confined to the circulation of vegetable juices, without vapour (its legitimate off spring) the fountain and the shower would be unknown -nor would the great processes of animal and vegetable fermentation and decomposition go on. Without rain or other means of ameliorating the soil, what would be the aspect of the globe? what the state of vegetation? what the situation of man?

The diffusion of electrical matter, found in the air, and in all other substances, furnishes a presumption that it is an efficient agent in vegetation. Nollet and others have thought that artificially employed, it favored the germination of seeds, and the growth of plants; and Mr. Davy " found, that corn sprouted more rapidly in water, positive'y electrified by the voltaic battery, than in water negatively electrified" (8) These opinions have not escaped contradiction, and we do not profess

to decide, where doctors disagree.

5th. Of stable pard manure, lime, marl, and expsum and

their agency in ve. etation:

We have all cally said, that vegetables in the last stage of decomposition, yield a black or brown powder, which Mr. Davy calls a "peculiar extractive matter of fertilising quality," and which the chymists of France have denoinmated terreau. This vegetable residuum is the simple mean employed by nature to re-establish that principle of fertility in the soil, which the wants of man and other animals are constantly drawing from it. It was first analysed by Hassenfratz, who found it to contain an oily extractive and carbonaceous matter, charged with hydrogen; the acetates and benzoates of potash, lime and ammoniac; the sulphates and muriates of notesh, and a soapy substance, previously noticed by Bergman. Among other properties (and which shows its combustible character) is that of absorbing, from atmospheric air, its oxigen, and leaving it only azote. This was discovered by Ingenbouse, who, with De Saussure and Bracconnet, pursued the subject by many new and interesting experiments, the result of which

1 That the oxigen thus absorbed, deprives the terrean of part of its carbon, which t renders soluble and converts into mucilage and

2. That the carbonic acid formed in the process, combines with the mucilage, and with it is absorbed

by the roots of plants.

If we put a plant and a quantity of slacked lime under the same receiver, the plant will perish, because the lime will take from the most atmospheric air all the carbonic acid it contains, and thus starve the plant Vegetables, placed near heaps of lime in the open air. suffer from the same cause and in the same way; but though lime, in large quantities, destroys vegetation, in small quantities it renders vegetation more vigorous. Its action is of two kinds-mechanical, and chymical; the first is a mere division of the soil, by an inter-

(6) See Chaptal on vegetation. (7) Er ght's Observations, &c.

(8) bavy's Elements.

fair's the organs or plants to the exercise of their natu- position between its parts; the second, the faculty of lous there existed a disposition in the public mind, to ren lering soluble vegetable matter, and reducing it to

the condition of terreau-The mechanical agency ascribed to lime, belongs also to marle and to ashes, and in an equal degree-but their chymical operation, though similar, is less. (9)

Gypsum is composed of lime and sulphuric acid. Maver was the first to present to the public a series of experiments upon it, in its relation to agriculture. Many chymists have followed him, and a great variety of opinion yet exists with regard to its mode of operation. Yvart thinks, that the action of gypsum is exclusively the effect of the sulphuric acid, which enters into its composition, and founds this opinion upon the fact, that the ashes of turf, which contain sulphate of iron and sulphate of alumino, have the same action upon vegetation as gypsum. Laysterie, observing that plants, whose roots were nearest the surface of the soil, were most acted upon by plaster, concludes, that gypsum takes from the atmosphere the elements of vegetable life and transmits them directly to plants! Bose intimates, that the septic quality of gypsum [which he takes for granted] best explains its action on vegetation; but this opinion is subverted by the experiments of Mr. Davy who found, that of two parcels of minced yeal, the one mixed with gypsum, the other left by itself, and both exposed to the action of the sun, the latter was the first to exhibit symptoms of putrefaction. Mr. Davy's own belief on this subject is, that it makes part of the food of vegetables, is received into the plant and combined with it. The last opinion we shall offer on this head, is that of the celebrated Chaptal. " Of all substances, gypsum is that of whose action we know the least. The prodigious effect it has on the whole race of trefoils (clover, &c.) cannot be explained by any mechanical agency—the quantity applied being so smallnor by any stimulating power-since gypsum, raw or roasted, has nearly the same effect; nor by any absorbent quality, as it only acts when applied to the leaves. If permitted to conjecture its mode of operation, we should say, that its effect being greatest when applied to the wet leaves of vegetables, it may have the faculty of absorbing and giving out water and carbonic acid, little by little, to the growing plant. It may also be considered as an aliment in itself- an idea much sup ported by Mr Davy's experiments, which shew, that the ashes of clover yield gyrsum, though the clover be raised on soils not naturally containing that substance."

(9) Vegetable ashes are lime, combined with an [to be continued.] earthy saline matter.

#### HYDROPHOBIA.

ELMWOOD, Avg. 10th, 1819.

MR SKINNER, -- I perceive that the present time, though in common with every mid summer, exciting some alarm, has awakened the attention of the public in no common degree to Hydrophobia, and becomes a suitable opportunity for every one who has any skill or knowledge in that disease to lend his aid. It would be criminal for any man to impose his theories on the public, in a disease, that gives to his fellow creature but one flecting opportunity, to avert the shaft of death One object in the present communication, is to remind the public, that a few years back, a benevolent Society was formed in Baltimore, to prevent the poor, and su perstitious from falling into the hands of Quacks, and Patentees of Nostrums, and to bring cases of threatened or actual Hydrophobia, under the management of regular Physicians .- The Rev Dr. Inclis was made President, and Drs. SMITH, DONALUSON, BAKER, PAGE, GIBSON, and WILKINS were appointed a board of managers. As an excitenent to cause patients to be brought in from the country, it was agreed, that their boarding should be paid out of the funds of the Society, when they were unable to pay, and in no case should any thing be charged for ned cine. It was stipulated at the offset of the Society, that whatever internal remedies might be used, that in no case should, the knife, or caustic be omitted; for it was on this point, namely, a beg lief that the only means of sufety, was to be expected from instantly extinfating the diseased fort, and attending to the womed, that the Society countained. It might, there here well be called the Ber volent Surgical Society. for the Prevention of Hydrophobia. It was too obvi- to produce death-

neglect the wound, and trust to any external or internal application that might be suggested by that set of gentry who are ever watching the tide of credulity to cast in their bait. It was those fellows who in Pliny's day, cut off a joint of the dog's tail, to prevent Hydro-phobia but when that trick failed, they went to the other extremity of the animal, and mutilated the poor dog's tongue, by cutting out one of the leaders, pretending it was a worm that caused madness; and, for this, they obtained a dollar. When this barbarous practice also failed, which continued till lately, they wisely went to the patient, where they could obtain a better fee, and more durable practice. Hence the introduction of Argillaceous stones, that excite wonder by adhering to the wound, and of the following list of intallibles each of which has some peculiar mark to recommend it; Liverwort, which has something uncommon in the substance of its foliage. Hyoseris amplexicaulis in the veins of its radical leaves. Anagallis Scultellaria, and Hedysarium Polistachia in their capsules, all of which have their advocates, who can boast of their hundred supposed cures. It is a lamentable fact, that where superstition spreads her ebon wings, from thence we hear of those nostrums, and of numerous deaths from Hydrophobia. It would be a valuable addition to the Littany to msert a prayer to be delivered from Quackery, as also from superstition-no painter ever attempted this monster, because he would soon find it impossible to form any image of a being that required organs, constructed to hear only what was fabulous, and swallow nothing that was not monstrous. Scultellaria it that be the medicine alluded to by Drs. STILLWELL, and Ronoson, is a powerful bitter, and probably a narcotic; it it be St. Integrifolia With due respect for the judgment of these gentry, I suspect they will never find another case to suit Scultellaria so well. It certainly was a pecubar case, and was one of those anomalous cases that might stand between Hydrophobia and Tetanus, or form a link with Historius or Historia. That Historia is some times accompanied with a dread of water, I have the history of two cases to prove; and that the bite of a deg not mad will produce disagrecable irritations, ending in permanent contractions of the fingers or wrist. I have also proof. Bark and wine I think would have answered the New-York case, as well as Scultellaria. The writer of the above has nothing to boast as to his peculiar knowledge in Hydrophobia, but he has attended to it with only one idea of reoledy for twenty years, and has met with twelve or fifteen cases of complete inocculation of the virus; all of which, have been exterpated in various times, from one hour to three days after the bite, and all with equal success. In one case there were twelve superficial wounds, and in this case, a horse and a cow bitten at the same time and place perished, and if, by the intricacy of the wound, no other means were practicable he would trust to suppuration of the wound, for a month, to all the medicine in the Pharmacoucea.

An eminent practitioner in this state, told the writer of this, that he had during his practice, forty cases of bites, by animals, supposed to be mad, all of which were successfully treated by supportating the wound with mercurials: this is some proof an all ance with Tetanus; a proof that the disease may be made local, and to exhaust its virus without affecting the system. The vegetable caustic heap up on a mortar, with a li tle water to the consistence of thin cream, and injected into the wound, or thrust in with a camel's hair pencil or with a Bausu of linen wrapped up round, a knitting needle, so as to make a firm roll, as big as the wound, will in one minute make the wound as large again as at first, taking off all the diseased part-and it must be a ragged wound indeed, that the caustic from an elastic bag syrings, especially when made a little thinner, will not clear out. A little vinegar injected will instantly stop the caustic from corroding teo freely-some suppuration ointment, made with Venice turpentine, and red precipitate will keep the wound in good purulent condition, and the lorger the better.

It is most carnestly recommended to all the towns and cities in the United States, to form Societies upon the same plan as that in Baltimore, as the most sure way of arresting Lydrophobia- for it only requires to be taken out of the hands of the ignorant and superstitions, to be rendered one of the most unlikely diseases SILVANUS.

# PARMER

BALTIMORE, FEIDAY, AUG. -1 14, 1819.

The 19th day of August has passed -tweive monthhave elapsed since the commencement of the Maryland Censor, and the . Imerican Farmer stands now on its own footing. All obligations to the subscribers to the Maryland Censor having been faithfully and honestly dis charged, it remains now for those who received that paper, and the American Farmer in lieu of it, to discharge their part of the obligation by paying up their dues-

No disrespect whatever is intended towards those whose papers have been stopped in consequence of their not having paid up-It is altogether an affair of common, downright, fair dealing between man and man. - To such subscribers we can say - you have had my paper for your benefit, on which my money and time and Labour have been expended :- It is but honest that you should now pay sime you were not compolled to take the paper .- There are amongst those who have neglected to pay, many gentlemen no doubt, who have, some forgotten, and others postponed, from day to day, yetyet while they forget and postpone-the editor's expences are going on- his family must live--the farmer's beef, and his chickens, and his potators and his corn meal must be bought and paid fr. To be brief,-we set out with one cardinal rule, on which not only the utility, but the very existence of the paper depends-We must be paid for the paper; we will not, because we cannot, send it to any one for nothing. Those who think it not worth the money, will, of course, not patronise it:-and the best patronage is the price of subscription, paid, at least, half yearly, in advance.

A Request .- The Editor of the Baltimore American Farmer, respectfully requests the favor of any of his subscribers to send him a small parcel, say half pint more or less, of Egyptian Minorca & Talavera Wheats. Aiso, a small parcel of sary forn estating the time it usually takes to ripen. Vny other rare or valuable; seed or grain will be received with great thankful-

cultural Societies for those articles, and his object in applications.

Editors of newspapers would serve the cause of Agriculture by copying this request.

It will be continued in the next two numbers.

thought of making—that if the writers of the numerous letters we receive from all quarters, would be good enough to mention, in short, general terms, the nature of the season, and the prospect as to the prevailing er ps in the neighbourhood of the writers, it would be highly satisfactory, as such notices might be made the basis of periodical reports, from which an estimate might be formed as to the probable abundance or scarcity of any particular article. Accurate reports of this kind would promote regularity and uniformity in the prices of country produce, and the hard earned fruit of the husbandman's labour would no longer be so liable to the vicissitudes of an ever fluctuating market.

Prince George's County, Aug. 15. We have little or no rain this season. Our crops of ed a few weeks past, and some little more than fodder. Our tobacco crops are wretched in the extreme; not ing up Our pastures might be burnt as we do the corrected, and the effect instantaneous. broom sedge in March and April. Our best springs have greatly failed, and in many places man and beast suffer for the want of water. Our mill races quite dry health. This statement, will include all the lower partipound it into oust, and sow it over the land where your

it is said, they are more fortunate, having had partial

It is also said, the counties adjoining Charles, St. Mav's and Calvert, suffer from drought as much, if not

nore, than we do.

I may truly say, our prospects of a crop are much vorse than it was several years since. The cold summer, was believed to be worse than any in the memory of our oldest inhabitants, yet our corn kept green and promised something. Many now have scarcely a hope if making any Some of my neighbours are so fortunate as to complete the planting of their tobacco crops -and it was thought three weeks ago, that prospects were good, but now they are gloomy in the extremewe have no garden vegetables, and our crops of hay The account given you is not exaggerated. In ded I feel fully impressed, that if you could at this time take a view of the district of country mentioned, you would say, the appearance for a next year's support are more deplorable than the statement now given.

Prince George's County, Aug. 12, 1819. Dear Sir-I had prepared so ne parcels of Chile Wheat. the produce of that which you sent me last fall, to be forwarded to you to day, but the gentleman who was to carry them has disappointed me; they shall be sent as

soon as I can get an opportunity. We are suffering here from the severest drought ever known in this part of the country. There has not been a rain to wet the roots of the Corn or Tobacco, since Whitsuntide. There cannot possibly be as much Corn land,) while in the act of hocing a hill of corn, aged made in our part of the country, as will last the winter The tobacco crop has almost entirely failed. Cal vert, Charles, and St. Mary's, are as baddy off as we are.

#### CHOLERA GORBUS.

To the Editor of the American Farmer.

Sir-No di-order, perhaps, at this season of the year, is more fatal, especially among children. than that which is called Cholera Morbus; an for a simple and infallible remedy, we cannot fee too grateful. I was awakened very early on Mon lay morning last-one of my children, a gitt, The Editor has had frequent applications from Agriculard five years, being suddenly and violently seized with this complaint-vomiting and purgmaking this request is, to enable him to gratify these ling, at short interval-, until day light. I had noficed the annexed prescription in some of un papers, and as early as I could, procured and burned, as directed, ancw, soft cork. Having no We had intended, at first, to have given the whole of milk handy, after rubbing the cork to a powder, Mr. Madison's able address in this paper; but, reflecting | mixed the whole quantity with some molasses that all our subscribers file their papers, we concluded and water, strained it and administered to the to divide it, so as to give a greater variety of matter. child about one third of it, which instantaneously and effectually relieved her. She ceased to vo The following letters, from valued friends in Prince mit, played about as usual, though somewhat lau-George's, reminds us of a suggestion we have often goodly, and had no evacuation until Wednesday morning, which was healthy, and the child is now in perfect health. From its great apparent astrin gency, I had prepared to dose the child with oil; out on Wednesday morning, the little alarm this circumstance excited, being dissipated, I saw no immediate necessity for administering it. I think you will do a service to the community, by republishing the following article in your useful paper.

> A writer, under the signature of Medicus, in the New Fork Daily Advertiser, offers the following as a certain cure for the Cholera Mornus.

Take a cork and burn it thoroughly in the fire; when corn are lost. Many fields, with the most favourable it ceases to blaze, mix it upon a plate with a little milk weather will not produce a fourth of what they promis- and water, or any thing more agreeable to the palate land repeat the dose till the disorder ceases - which it commonly does in the second or third administration of planted by nearly one half, and what is standing burn, the remedy, the acidity of the stomach is immediately

Receipt for Destroying the Fly in Turnips.

Get some waste Tobacco from the Tobacconist, and for weeks past, and yet, thank God, we are blest with dry it in the sun, or in a pan over the fire; afterwards of this country from Upper Marlboro' down; ahove that, turnip is sowed, and it will preserve it from the Fly.

NEW YORK, Aug. 18.

By the Hector, Gillender, which sailed from Liverpool on the 26th June, we have received London papers to the 23d, and Liverpool to the 25th of that month.

The citizens of Liverpool were gratified, and astonished by the arrival, at that port, on the 21st of June, of the beautiful steam ship Savannah, Capt. Rogers, in 26 days from Savanual, and 21 from land to land, She was five days in the channel-before she got up to Liverpool, and worked nepengine eighteen days of the passage. She is the first ship on this construction that has undertaken a voyage across the Atlantic; she was built in this city, and is 319 tons.

Arrived at Quebec, 9th inst. H. B. M. ship 'vrene, with \$600,000; ship Nautilus, 42 days from Jamaica, with 160 troops; ship Ocean, Davis, from do. with 210 troops; brig Sheatham, from underland, with 80 settlers. Part of the above troops are to be disbanded at Quebec.

Sudden Death.-Died lately on the plantation of Mr. B - s, in South Carolina, a Negro Wench, (a field 45.-Her friends, who attended to lay her out, found athed round her the handle of a frying pan, which she and substituted in hen of a corset, well secured by pieces of rope, which was, no doubt, the cause of her untimely exit.

W. H. D'C. WRIGHT, who has established simself on Bowly's Wharf, for the sale of Counery Produce on commission, has engaged to furnish the Editor with an account of actual sales of ountry Produce on several days in each week. thus the farmers may rely on the accuracy of our ist of prices, with as much confidence as if he ad himself made the sales.

To the gentlemen from whom we have hitherto bht ifned this information, and in whom every conidence is to be had, we return our sincere thanks -but, not having leisure to make a weekly tour of the wharves, we have taken this method of procuring exact intelligence, particularly as to sales of CORN-WHEAT-RYE-OATS and TOBACCO.

Sales of Country Produce, ascertained by actual Sales, and reported for the American Farmer. by W. H. De Wright-Commission Merchant, Baltimore.

Tobacco-Eight hhds. crop, from Benedict-C. S. Smith's, sold by Dare and Chesley, at 10 and \$12-Virginia Tobacco, 6 1-2 to \$8-Sales of common Richmond Tobacco, by M'Donard and Sons, at \$6 50-Wheat, White, 1 06 to \$1 10sales on Wednesday, at \$1 08-Red, 1 2 to S1 07-Sales Saturday, at 1 01 to S1 03-Yescerday, \$1.06-Corn, 53 to 57 cents-Oats, 40 to 45-Rye, 50 to 53-North Carolina Staples as per last report.

LIVE STOCK -Mr. Rusk purchased during the last week, 15 latted cattle, picked from a drove of 35, for which he paid \$8 50 per cwt. (for the nett Butcher's meat-let this hereafter be understond); They were brought from the South Branch of Potomac, latted by Wm. Cunningham, and of superior quality.

Fish-Shad, No. 1, \$7-No. 2, \$6 50-Herings, No. 1, \$2.75-whiresale and retain, \$ i-No. 2, wholesale, 82 25-Retail, 82 50-Hay and Straw as last reported.

# PRICES CURRENT

#### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

		<i>J</i> - · · · ·	J	В
ARTICLES.	PER.	RETAIL	PRICES	~
EEEF, Northern mess)	bbl.	15 1		В
No 1, wholesale.		13	į	
No 2		11		c
Bacon,	ib.	16		
Butter, Ferkin, wholesale		18		S
Coffee, first quality,		83		Т
second do		27	28	N.
Cotton,		27		
Twist, No. 5,	l	45		P
No. 6 a 10, -		46	50	S
No. 11 a 20,		53	80	C
No. 20 a 30,	]	80	1 20	c
Chocolate, No. 1,		33 28		1
No. 2,		25		c
No. 3,	box	20	22	В
Candles, mould,	JUL	18	19	v
dipt,	- 1		scarce	ľ
spermaceti,	lb.	10	15	
Cheese, American, Feathers,		60	65	В
Fish, cod, dry	qtl.	3 50		V
	bbl.		retail	S
mackarel, No. 1 a 3		6	9	L
shad, trimmed,		7 75	7 87	s
Flour, superfine, -		5 50	6	١.
fine,	bbl.	5	5 50	G
middlings,	1	4 50	5	A
rye,	_ '	4 a	4 25	١.
Flaxseed, rough,		none.		F
cleaned, •	bush			ľ
	lb.	do 12	15	B
Hides, dryed,		12	13	1"
llogs lard,		25	30	t
Leather, soal,	gal.	62 1-2	75	S
Molasses, Havana,	gai.	75		ľ
New Orleans,		1 "		S
sugar house, Oil, spermaceti,	gal.	1 50		N
PORK, mess or 1st quality, -	БЫ.	18 a	20	1
prime 2d do		16 a	17	В
cargo 3d do		14 a	15	١.
Plaster,	ton	5		C
ground	hbl.	1 75		A
Rice,	lb.	6		ľ
SPIRITS, Brandy, French, 4th proof	gai.	2 1 25	3 1 50	1
peach, 4th proof		75	1 50	r
apple, ist proof Gin, Holland, list proof		I 50		tl
do. 4th proof				1
do. N. England		50	60	1
Rum, Jamaica,		1 50	2	1
American, 1st proof	1	75		Г
Whiskey, 1st proof	1	35	40	
Soar, American, white,	lb.	18	20	•
do. brown, -	Į	9	12	L
Sugars, Havana, white,		19	10	L
brown, N. Orleans,		12 25	13	ŀ
loaf,	!b.	20	28 a 25	
Salt, St. Ubes,			u 23	ı
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1.ivernool.ground. = = =	bu.	70 75	1	Ļ
Liverpool, ground, Shot, all sizes	bu . lb.	70 75 12	1	
Shot, all sizes, TOBACCO, Virginia fat,		75	1	
Shot, all sizes,	lb.	75 12	1	
Shot, all sizes, TOBACCO, Virginia fat, do. middlings, Rappahaonock,	lb.	75 12 7 6 50 5	5 50	
Shot, all sizes,	lb. cwt.	75 12 7 6 50 5 6 50	5 50 7 50	
Shot, all sizes,	lb.	75 12 7 6 50 5 6 50 25	5 50 7 50 37	
Shot, all sizes,	lb. cwt.	75 12 7 6 50 5 6 50 25 50	5 50 7 50	
Shot, all sizes,  TOBACCO, Virginia fat, do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohea,	lb. cwt.	75 12 7 6 50 5 6 50 25 50 63	5 50 7 50 37 75	
Shot, all sizes,  TOBACCO, Virginis fat,  do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohca, Southong,	lb. cwt.	75 12 7 6 50 5 50 25 50 63 75	5 50 7 50 37 75 a 100	
Shot, all sizes,  TOBACCO, Virginia fat, do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohca, Soutchong, Hyson Skin	lb. cwt.	75 12 7 6 50 5 6 50 25 50 63 75	5 50 7 50 37 75 a 100 a 150	
Shot, all sizes,  TOBACCO, Virginia fat, do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohca, Souchong, Hyson Skin Young Hyson,	lb. cwt.	75 12 7 6 50 5 50 25 50 63 75 75 1 25	5 50 7 50 37 75 a 100	
Shot, all sizes,  TOBACCO, Virginia fat, do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohea, Soutchong, Hyson Skin Young Hyson, Imperial,	lb. cwt.	75 12 7 6 50 5 6 50 25 50 63 75 75 1 25 1 75	5 50 7 50 37 75 a 100 a 150	
Shot, all sizes,  TOBACCO, Virginis fat,  do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohea, Southong, Hyson Skin Young Hyson, hmperial, WOOL, Merino, clean,	lb. cwt.	75 12 7 6 50 5 50 25 50 63 75 75 1 25	5 50 7 50 37 75 a 100 a 150	
Shot, all sizes,  TOBACCO, Virginis fat,  do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohca, Soutchong, Hyson Skin Young Hyson, Imperial, WOOL, Merino, clean, unwashed,	lb. cwt.	75 12 7 6 50 5 6 50 25 50 63 75 75 75 1 25 1 75	5 50 7 50 37 75 a 100 a 150	
Shot, all sizes,  TOBACCO, Virginia fat, do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohea, Southong, Hyson Skin Young Hyson, Imperial, WOOL, Merino, clean, unwashed, crossed, clean, unwashed,	lb. cwt.	75 12 7 6 50 5 6 50 25 50 63 75 75 1 25 80 40 63 35	5 50 7 50 37 75 a 100 a 150	
Shot, all sizes,  TOBACCO, Virginia fat,  do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohea, Southong, Hyson Skin Young Hyson, Imperial, Uniwashed, crossed, clean, uniwashed, common country, clean,	lb. cwt. lb.	75 12 7 6 50 5 6 50 63 75 75 1 25 1 75 80 40 65 3 3 7 3 7 3 7 3 7 5 80 80 80 80 80 80 80 80 80 80 80 80 80	5 50 7 50 37 75 a 100 a 150	
Shot, all sizes,  TOBACCO, Virginia fat, do. middlings, Rappahaonock, Kentucky, small twist, manufactured, pound do.  TEAS, Bohea, Soutchong, Hyson Skin Young Hyson, Inperial, WOOL, Merino, clean, unwashed, crossed, clean, unwashed,	lb. cwt. lb.	75 12 7 6 50 5 6 50 25 50 63 75 75 1 25 80 40 63 35	5 50 7 50 37 75 a 100 a 150 a 150	

## RATES OF EXCHANGE.

OF BANK BILLS.

Corrected monthly for the American Farmer.

Corrected monthly for the American	Farmer.
Branches of the U. States' Bank not paya- able at Baltimore.  Boston Banks	par par
NEW-YORK,	
City Banks	par
NEW-JERSEY.	•
State Bank Camden	par
Trenton, Newark, and Brunswick,	i dis.
Mount Holly Bridgetown, &c.	1 do.
PENNSYLVANIA.	
Philadelphia,	par a a8-4
Stephen Girard's Bank,	par a do.
Chester, Easton, Harrisburg, Montgomery,	par a doi
Hulmoville, Germantown,	1 dis.
Carlisle Bank, Chambersburg, Gettysburg,	
York, Lancaster, and Columbia Bridge,	1 1-2 a 2 do
Carlisle, (Agricultural)	nominal.
Bank of Pittsburg,	6a7 1-2 dis.
	0a 1 1-2 dis.
Westmoreland, Bedford, Brownsville,	nominal.
Meadville, Centre, Huntingdon, Milton	
DELAWARE.	1 110
Bank of Delaware,	1 a 1 1-2
Wilmington and Brandywine,	1 a 1 1-2
State Bank at Dover, and Branches,	1 a 1 1-2
Laurel,	50 duli
Smyrua and Milford,	8
DISTRICT OF COLUMBIA.	
Georgetown Banks, Atexandria Banks, (excepting the Me-) Mechanics and the Franklin.	I dis.
Mekandria Banks, (excepting the Me-	1 do
	00
Mechanics of Alexandria,	20
Franklin of Alexandria,	50
VIRGINIA.	`
Bank of Virginia, Farmers' Bank, and	1 1-2
Branches,	7 1-2 a 25
Unchartered banks, various Saline and Parkersburg	no sale
	no sale
NORTH CAROLINA. State Bank and branches	6 1-2 do.
Newbern and Cape Fear	7 I-2 dis.
	/ 1-2 UIS.
Bank Bills	2 1 a 3
1	4943
оню. Chillicothe, Marietta, Muskingum, Urban. )	
na, Stubenville, &c.	
Mount Pleasant, Montpelier, New Lisbon,	15 a 25*
St. Clairsville, &c.	
The above are the present rates; bef	ore our nest
report they may vary generally 100 t non	cent eveent
report, they may vary generally 1.2 a 1 per those marked thus *, which are more fluctu	otina
Imoso markou chas , which are more nacta	

#### POETRY.

# ELEGY ON A LADY SACRIFICED TO GOLD.

Hen eyes were like the star-wrought firmament, Etherial blue, and lighted with pale fires, Mild as the moon-beams when with shadows blent, Speaking calm wishes, sweet, yet chaste desires. On her ripe cheek the rose did sometimes blow, When a quick mantling blush abided there, But oftener, the pale lily white as snow, Sheds its soft hue beneath the shadowy hair. That hair seem'd as 'twas made for aye to twist,

Round captiv'd hearts and never let them go, So wantonly it tangled round, and kiss'd Her lovely cheek, blue-eye, and brow of snow. I've seen twin rose-buds blushing side by side, When morning dews the insect rabble sip; But never yet did hu, or sweet abide, On dew-lapp'd rose, like those on her red lip. No wandering shepherd, who sojourns awhite In bless'd Arabia, where the spices grow, E'er saw the morn of May wear such a smile, Or knew such sweets as from those hips did flow.

I've heard the turtle moan her round delay, The breathing flute, and hunter's mellow horn, Winding in softened distance, far away, Along the hills, by answering echoes borne: But when she spoke, and plaintive smil'd the while. Op'd her red lip, and show'd the every row, There was a harmony in speech and smile. That turtle, flute, or horn did never know-Thus cloth'd with every attribute of Heav'n. She seem'd by holy Providence design'd A rich and bright temptation, to be giv'n, For some heroic act, or task of mind But she was thrown away upon a clod Of senseless earth, with neither heart nor soul, A libel both on nature, and on God-A man who liv'd for gambling and the bowl-Who knew not what a treasure be possess'd. But threw it from him as a worthless toy, And turn'd from where an angel would have bless'd, To scenes of senseless riot, beastly joy. The animal was rich, and her harsh sire, Who could not comprehend a greater good, Condemn'd his child to this ordeal of fire, And sacrific'd to gold his flesh and blood. At his command a heartless hand she gave. Surrender'd a cold, shrinking, lifeless form, And gave up one so beautiful and brave, To consort with a wretched earth-born worm. For wo was her!-she lov'd another man-

A man to whom this husband was no more Than was the beast that through the forest ran, To the gay hunter, who his honors wore. Glory and love, were his most prime delights, But virtuous love, in truth, he valued best, And snatch'd at glory, as a heav'nly light, To waken love in some high woman's breast. But what of that!—the ties of gentle love, Are nought to those that only breathe for gold? So Av'rice burst the bands affection wove, And the bright victim, like a slave, was sold.

Yet though they drove her to another's bed, They could not make the hapless girl forget, Another hand should to the church have led, Another heart her throbbing heart have met. Heart-burning wishes, and heart-sick disgust, By turns or scorch'd or froze her gentle blood; And life was one hard struggle from the first, To conquer hate, and quell love's raging flood.

And she did conquer, but it cost her life; For cruel was the strike she had to bear, Between the love-lorn mistress, wretched wife, Blooming and beck'ning love, and wither'd stern Despair.

Pale grew her cheek, and paler every day, Yet still sad patience bided in her eye-Slowly, yet surely, sorrow work'd its way; She died without a struggle, or a sigh. One dark November day, when a chill blast Swept through the church yard with a moaning sound: When round the wither'd leaves were idly cast, And the dry grass lay dead upon the ground-I follow'd her pale corse to its sad cell, Where all that once was beauty now repos'd, And heard the hollow earth sound, slowly swell, Fainter and fainter, till the grave was clos'd. I saw an old man with a head of snow, Stand like a statue, cut from solid stone: A sad and moveless monument of wo, Heside the grave all desolate and lone. No wringing of the feeble hands was here,

Nor heaving breast discharging heavy sighs, Nor furrow'd cheek moistened with trickling tear—Despair alone glar'd in his hollow eyes.

And I would not have had that old man's heart, For all this world's wealth twenty times full told; Nor borne its slow, consuming, killing smart—For 'twas the father, who his daughter sold.

Salmagundi.

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FOR JOHN S. SKINNNER, EDITOR,
At the corner of Market and Brividere-streets,
BALTIMORE.

# AMERICAN FARMER.

## RUBAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

"O fortunates nimium sua si bona norint "Agricolas." . . . . VIRG.

Vol. I.

## BALTIMORE, FRIDAY, AUGUST 27, 1819.

Num. 22.

## AGRICULTURE.

Mr. Madison's Address.

AN ADDRESS DELIVERED BEFORE THE AGRICUL-TURAL SOCIETY OF ALBEMARLE, (VIRG.) ON Tuesday, May 12, 1819. By Mr. Madison. President of the Society.
[Continued from No. 21, page 163.]

Were the earth in every productive spot, and in every spot capable of being made productive, appropriated to the food of man; were the spade substituted for the plough, and all animals consuming the food of man, or food for which human food might be substituted, banished from existence, so as to produce the maximum of population on the earth there would be more than an hundred individuals, for every one now upon it. In the actual population of many countries, it brings on occasional epigemics to be traced to no other origin than the state of the atmosphere. Increase the numbers to ten or twenty fold, and can it be supposed that they would, at any time, find the breath of life in a condition to support it; or if that supposition be admissable when limited to a single country, can it be admitted, when not only the contiguous countries, but the whole earth was equally crowded?

Must we then adopt the opinion entertained by some philosophers, that no variation whatever in the numbers and proportions of the organized beings belonging to our globe, is permitted by the system of vature; that the number of species and of individuals in the animal and vegetable empires, since they attained a destined complement, has been, and must always be the same; that the only change possible is in local augmentations and diminutions which balance each other, and thus maintain the established and analterable order of thiogs?

This would be the opposite extreme to that which has been rejected. Man, though so similar in his physical constitution to many other animals, is essentially distinguished from all other organized beings, by the intellectual and moral powers with which he is endowed. He possesses a reason and a will by which he can act on matter organized and unorganized He can, by the exercise of these pecultar powers, increase his subsistence, by which his numbers may be increased beyond the spontaneous supplies of nature; and it would be a reasonable conclusion, that making as he does, in his capa city of an intelligent and voluntary agent, an integral part of the terrestrial system, the other parts of the system are so framed as not to be altogether unsusceptible of his agency, and unpliable to its

This reasonable conclusion is confirmed by the fact, that the capacity of man, derived from his reason and his will, has effected an increase of particular plants and animals conducive to an increase of his own race; and a diminution of the numbers, if a change as would result from a distruction of the glance at the name of those composing that of Alnot of the species, of plants and animals displaced animals and vegetables not used by man; and mul-bemarle, without being assured, that its full quota by that increase,

ably exceed the numbers which, without the inter-ficient to fill up the void; yet that there is a degree vention of man, would be their natural amount; of change which the peculiar faculties of man enawhilst the animals preying on or interfering with ble him to make, and by making which, his fund of

and banish, or proportionally reduce such as inter-a tendency in that excess to correct itself. fere with them.

human food The latitudes to which its growth ihave prevailed any where, in the extent in which it the benign influence of a responsible government is now cultivated. And it is equally certain that the vegetable productions belonging to the same makes the aggregate number of mankind unsuscepclimates, which must have been displaced by its tible of change, and believe that the resources of cultivation, have not received an equivalent introduction and extension elsewhere.

It is remarkable that the vegetable productions most extensively used as human food, are but little, if at all found in their indegenous state; whether that state be the same as their present one, or a mountains of Chili, nor can it be believed, that preextent to which cultivation is now carrying it.

These views of the subject seem to authorize the conclusion, that although there is a proportion beour globe, and between the species in each class, with respect to which, nature does not permit such tiplication of the human race, and of the several of information will be furnished to the general

Most, if not all of our domesticated animals prob [species of anumals and vegetables used by it, sufthem, are proportionably reduced in their numbers subsistence and his numbers may be augmented: The case is the same with cultivated plants.—there being at the same time, whenever his num-They are increased beyond their natural amount; bers, and the change, exceed the admitted degree.

Could it however be supposed that theestablish-Nor can it be said, that these changes made by ed system and symmetry of nature, required the human art and industry in some regions, are balanc-number of human beings on the globe to be always ed by corresponding changes made by nature, in the same; that the only change permitted in rela-Take for examples, the articles of tion to them, was in their distribution over it; still, wheat, rice, millet, and maize, which are the chief as the blessing of existence to that number would mafood of civil zed man; and which are now spread terially depend on the parts of the globe on which over such immense spaces. It is not possible to they may be thrown; on the degree in which their regard them as occopying no more than their origi-situation may be convenient or crowded; and on the nal and fixed proportions of the earth : and that in nature of their political and social institutions; moother parts of it, they have disappeared in the same lives would not be wanting to obtain for our portion degree in which they are thus artificially extended, of the earth, its fullest share, by improving the re-These grains belong to the torrid and temperate sources of human subsistence, according to the fair zones only; and so gie it a proportion of these zones measure of its capacity. For, in what other porhave been explored, that it is certain, they could tion of equal extent will be found climates more not have been displaced from other parts of the friendly to the health or congenial to the feelings glabe, in the degree in which they abound where of its inhabitants? In what other, a soil yielding they are now cultivated, and where it is certain they more food with not more labour? And above all, owe their ab indance to cultivation. There must where will be found institutions equally securing the Take more particularly for an example, the arti-the United States, is often too much ascribed to cle of rice, which constitutes so large a portion of the physical advantages of their soil and climate, and to their uncrowded situation. Much is certainlimited by the nature of the plant, are for the most ly due to these causes—but a just estimate of the part so well known, that it may be assumed for an happiness of our country, will never overlook what unquestioned fact, that this grain cannot always belongs to the fertile activity of a free people, and

> In proportion as we relax the hypothesis which our country may not only contribute to the greater happiness of a given number, but to the augmentation of the number enjoying a greater happiness, the motives become stronger for the improvement and extension of them.

But whilst all are sensible that agriculture is state from which they were improveable into their the hasis of population and prosperity, it cannot be present state. They seem indeed not likely to denied that the study and practice of its true princiflourish extensively in situations not prepared by the ples have hitherto been too generally neglected in hand of man The potatoe so recently brought in the United States; and that this state has at least to use, and now spreading itself over so great a sur-its full share of the blame. Now only for the first face, can barely be traced to a native state in the time, notwithstanding several meritorious examples of earlier date, a general attention seems to be avious to its adoption by man, it ever existed in the wakened to the necessity of a reform. Patriotic societie, the best agents for effecting it are pursuing the object with the animation and intelligence which characterize the efforts of a self-governed tween the animal and vegetable classes of beings on people, whatever be the objects to which they may be directed.

Among these promising institutions, I cannot

stock. I regret only, that my own competency bears so little proportion to my wishes to co-operate with them. That I may not be thought, however deficient in good will, as well as in other requisites, I shall venture on the task, a task the least difficult, of pointing out some of the most prevalent errors in our husbandry, and which appear to members.

1. The error first to be noticed is that of cultivating land, either naturally poor or impoverished by cultivation. This error, like many others, is the effect of habit, continued after the reason for it has failed. Whilst there was an abundance of fresh and fertile soil, it was the interest of the cultivator to spread his lahour over as great a surface as he could. Land being cheap and labour dear and the land co-operating powerfully with the labour, it was profitable to draw as much as possible from the land. Labour is now comparatively cheaper and land dearer. Wherelabour has risen in price fourfold, land has risen tenfold. It might be prolitable, therefore, now to contract the surface over which lahour is spread even if the soil retained its freshness and fertility. But this is not the case. Much of the fertile soils is exhausted, and unfertile soils are brought into cultivation: and both co-operating less with labour in producing the crop, it is necessary to consider how far labour can be profitably exerted on them; whether it ought not to be applied towards making them fer tile rather than in further impoverishing them: or mechanical occupations or to domestic manufac-

In the old countries of Europe, where labour is cheanand land dear, the object is to augment lahour and contract the space on which it is imployed. In the new settlements taking place in this country, the original practice here may be rationally pursued. In the old settlements, the reason for the practice in Europe is becoming daily less inapplicable. and we ought to yield to the change of circumstances by forbearing to waste our labour on land, which besides not paying for it, is still more impoverished and rendered more difficult to be made rich. The crop which is of least amount gives the blow most mortal to the soil. It has not been a very rare thing to see land under the plough not producing enough to feed the ploughman and his horse; and it is in such cases that the death blow is given .-The goose is killed without even obtaining the cov eted egg.

There cannot be a more rational principle in the code of agriculture, than that every farm which is in good heart should be kept so; that every one not in good heart should be made so; and that what is right as to the farm generally, is so as to every part of every farm. Any system therefore, or want of system, which tends to make a rich farm poor, or does not tend to make a poor farm rich, cannot be good for the owner, whatever it may be for the tenant or superintendant who has a transient interest only in it. The profit, where there is any, will not balance the loss of intrinsic value sustained by the land.

II. The evil of pressing too hard on the land has also been much increased by the bad mode of ploughing it. - Shallow ploughing, and ploughing up and down hilly land have, by exposing the loosened soil to be carried off by rains, hastened more

When the mere surface is pulverized, moderate rains on land but little uneven, if ploughed up and down gradually wear it away. And heavy rains on hilly land ploughed in that manner, soon produce a like effect, not with standing the improved practice of deeper ploughing. How have the be among those which may merit the attention of beauty and value of this red ridge of country sufthe society, and the instructive examples of its ferred from this cause? and how much is due to the happy improvement introduced by a member of this Society, whom I need not name,\* by a cultivation in horizontal drills, with a plough idapted [ to it? Had the practice prevailed from the first settlement of the country, the general fertility would have been more than the double of what the red hills, and indeed all other hilly lands now possess: and the scars and sores now defacing them would no where be seen. Happily, experience is proving that this remedy aided by a more rational management in other respects, is adequate to the purpose of healing what has been wounded, as well as of preserving the health of what has escaped the calamity. It is truly gratifying to observe how fast the i provement is spreading from the parent example. The value of our red hills, under a mode of cultivation which guards their fertility against wasting rains, is probably exceeded by that of no uplands whatever; and without that advantage, they are exceeded in value by almost all others. They are little more than a lease for years.

Besides the inest mable advantage from horizontal ploughing, in protecting the soil against the wasting effect of rains, there is a great'r one, in whether it might not be more profitably applied to its preventing the rains themselves from being lost to the crop. The Indian Corn is the crop which most exposes the soil to be carcied off by the raios, and it is at the same time the crop which nost needs them. Where the land is not only bitly, but the soil thirsty. (as is the case particularly throughout this mountainous range) the preservation of the rain as it falls, between the drilled ridges, is of peculiar importance; and its gradual set tling downwards to the roots, is the best possible mode of supplying them with moisture. In the old method of ploughing shallow with the furrows up and down, the rain, as well as the soil, was lost.

III. The neglect of manures is another error which claims particular notice. It may be traced to the same cause with our excessive cropping. In the early stages of our agriculture, it was more convenient and more profitable to bring new land into cultivation, than to improve exhausted land. The failure of new land, has long called for the improvement of old land; but habit has kept us deaf to the call.

Nothing is more certain than that continual cropping without manure deprives the soil of its fertility. It is equally certain, that fertility may be preserved or restored, by giving to the earth animal or vegetable manure equivalent to the matter taken from it; and that a perpetual fertility is not, in itself, incompatible, with an uninterrupted succession of crops. The Chinese, it is said, smile at the idea that land needs rest, as if like animals, it had a sense of fatigue. Their soil does not need rest, because an industrious use is made of every fertilizing particle, that can contribute towards replacing what has been drawn from it. And this is the more practicable with them, as almost the whole of what is grown on the farms is consumed within them. That a restoration to the earth of all

\*Col. T. M. Randolph.

than any thing else, the waste of its fertility, that annually grows on it, prevents its impoverishment, is sufficiently seen in our forests; where the annual exuvæ of the trees and plants, replace the fertility of which they deprive the earth. Where frequent fires destroy the leaves and whatever else is annually dropped on the earth, it is well known that the land becomes poorer; this destruction of the natural crop having the same impoverishing effect as the removal of a cultivated crop. A still stronger proof that an annual restoration to the earth of all its annual product will perpetuate its poductiveness, is seen where our fields are left uncultivated and unpastured. In this case, the soil, receiving from the decay of the spontaneous weeds and grasses, more fertility than they extract from it is, for a time at least, improved, not impoverished. Its improvement may be explained, by the fertilizing matter which the weeds and grasses derive from water and the atmosphere, which forms a nett gain to the earth. At what point, or from what cause, the formation and accumulation of vegetable mould from this gain ceases, is not perhaps very easy to be explained. That it does cease, is proved by the stationary condition of the surface of the earth in old forests; and that the amount of the accumulation varies with the nature of the subjacent earth, is equally certain. It seems to depend also on the species of trees and plants which happen to contribute the materials for the vegetable mould.

But the most eligible mode of preserving the richness, and of enriching the poverty of a farm is, certainly that of applying to the soil a sufficiency of animal and vegetable matter in a putrified state, or a state ready for putrefaction, in order to procure which, too much care cannot be observed in saving every material furnished by the farm. This resource was among the earliest discoveries of nen living by agriculture; and a proper use of it has been made a test of good husbandry in all countries, ancient and modern, where its princi-

ples and profits have been studied. Some farmers of distinction, headed by Tullsupposed that mere earth, in a pulverized state, was sufficient without manure for the growth of plants; and consequently, that continued pulverization would render the soil perpetually productive; a theory, which never would have occurred to a planter of tobacco or of Indian corn, who finds the soil annually producing less and less, under a constant pulverising course. The known experiment of Van-Helmont seemed to favour the opposite theory, that the earth parted with nothing towards the plants growing on it. If there were no llusion in the case, the earth used by him must, at least, have been destitute of vegetable mould. For. in an experiment by Woodhouse, a gardenmould was diminished in its weight by a plant which grew in it. And the latest chemical examination of the subject coincide with the general opinion of practical husbandmen that the substance of plants, partakes of the substance of the

The idea is, indeed, very natural that vegetable matter which springs from the earth, and of itself returns to the earth, should be one source at least of the earth's capacity to re-produce vegetable

It has been asked how it happens that Egypt and Sicily, which have for ages been exporting their agricultural produce without a return of any equivalent produce, have not lost their re-productive capacity. One answer has been, that they have lost

no small degree of it. If the fact be otherwise with are attached to this mode, as protecting the soil husbandry, or some particular total circumstances, composed into a manure. The objection to this which countervail the continued asportation of the fruits of the soil. But it is far more probable, that feet is obtained. 3 Turning the straw at once the island is less productive than it once was is certainly less of a granary for other countries now, than it was when it received that title from the ancient Romans. And its population being diminished, the internal consumption must also be diminished. If a single farm is rendered less productive by a continued removal of its crop, without the straw by the flad or by the machines now in use. any adequate returns, no reason occurs why in facities of which break the straw sufficiently to pieces. should not happen to a number of farms multiplied to the extent of a whole country

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If it were, Virginia, unfortunately, is but too ca manures has been particularly neglected.

crop, is also an exhausting crop. So are rye and oats us of its insufficiency. which enter occasionally into our farming system.

impoverished face of the country; whilst every one all cultivated plants, the roots of which are not an parts of the neid, the soit of which are not an parts of the neid, the soit of which are not an parts of the neid, the soit of which are not an interest of the country; whilst every one all cultivated plants, the roots of which are not an interest of the country; whilst every one all cultivated plants, the roots of which are not an interest of the country; whilst every one all cultivated plants, the roots of which are not an interest of the country; whilst every one all cultivated plants, the roots of which are not an interest of the country in the neid that the n ought to be desirous of aiding in the work of refor- esculent part.

for the rescue of our farms from their present degraded condition.

Of Tobacco, not a great deal more than one half of the entire plant is carried to market. The residue is an item on the list of manures; and it is known to be in its quality a very rich one. The crop of tobacco, however, though of great value, covers but a small proportion of our cultivated ground, and its offal can of course contribute but inconsiderably to the general stock of manure. It is probable also that what it does cont ibute, has been't more carefully used as a manure, than any other article furnished by our crops.

The article which constitutes our principal manure is wheat straw. It is of much importance therefore to decide aright on the mode of using it. There are three modes:-1. Carrying it from the farm yard, after having passed through or being trodden and enriched by eattle. In that mode, the greater part of it must be used, if used at all : the straw going through that process, being a necessary part of the food allotted to the cattle. To derive the full advantage from it, it ought to be liauled out before the substance has been wasted by rain, by the sun, and by wind; and to be buried in the earth as soon after as possible. 2. Spreading the straw on the surface of the ground. Many respectable farmers

regard to Egypt, it might be accounted for by the from the sun: and by keeping it moist, favoring fertilizing mandations of the Nile. With regard to the regetation underneath, whether spontaneous ur Sicily, there may be something in the system of artificial; whilst the straw itself is gradually demode is the loss by evaporation, before this last efunder the surface of the earth. This would seem to 'e the best mode of managing manures generaly; least of their substance being then lost When the grain is trodden out from the straw, it is eft in a state easily admitting this operation. Some difliquity may attend it, when the grain is threshed from

It may be remarked with regard to this article of manure-1. That its weight is barely more than And that individual farms do lose their fertility that of the grain. 2 That the grain is the part in proportion as crops are taken from them, and re- which makes the greatest draft on the lettility of turns of manure neglected, is a fact not likely to be the earth. 3 That the grain is for the most part not consumed within the farm. It is found on trial that a stalk of wheat, as generally cut, including pable of furnishing the proofs Her prevailing the chaff, and the grains borne by the stalk, are crops have been very exhausting, and the use of pretty nearly of equal weight. The case is probably the same with rye ; and not very different with Tobacco and Indian Corn, which for a long time oats The proportion of fertilizing matter in the on the east side of the Blue Mountains were the straw, to that in the grain, has not, as far as I articles almost exclusively cultivated, and which know, been brought to any satisfactory test. It is continue to be cultivated, the former extensively, doubtiess much less in the straw, which alone in the the latter universally, are known to be great nn- case of wheat, is with us returnable in any form to poverishers of the soil Wheat, which has for a num-the earth. This consideration, whilst it larges us ber of years, formed a large portion of the general to make the most of the article as a manure, warms

The stubble and the roots of the small grains. With so many consumers of the lertility of the not being taken from the earth, may be regarded as earth, and so little attention to the means of repair- relapsing into a fertility equal to that of which they ing their ravages, no one can be surprised at the deprived the earth. This remark is applicable to

An eminent citizen and celebrated agricultu-The first and main step towards it, is, to make vist\* of this state, has among other instructive lesthe thieves restore as much as possible of the stolen sons, called the public attention to the value of the fertilize. On this, with other improvements which corn stalk as a manure. I am persuaded that he may be made in our husbandry, we must depend has not overated it-And it is a subject of agreeable reflection, that an article which is so extensively cultivated as that of Indian corn, and which is so particularly exhausting, should be the one so capable of repairing the injury it does.

The corn stalk as a lodder is of great value. -Not only the leaves, but the husk inclosing the ear, and the cob inclosed by it, are all more or less valu able food when duly preserved and dealt out to cat tle. There is no better fodder than the leaves or blades for horses and oxen; nor any so much approved for sheep. The husk or shuck is a highly nourishing food for neat cattle. And the pickings of the stalk, even at a late season, and after much exposure to the weather, support them better than any of the straws. From the saccharine matter in the stalk, which is long retained about the joints, it cannot be doubted that if cut carly, or before exposure to the weather, into paris small enough for mastication, it would well repay, as a food for cattle, the labour required for it.

The great value of the corn stalk, in all its parts is a fodder, was brought into full proof, by the use made of it during the late general failure of crops. It is to be hoped that the lesson will not be suffered to pass into oblivion.

[To be continued.]

FROM THE ALBANY ARGUS

# $m{T}$ reatise on Agriculture.

SECTION IV.

Of the Analysis of soils, and of the agricultural relations between soils and plants. [Continued from No. 21-page 166.]

We have seen that the earths have a threefold capacity, that they receive and lodge the roots of plants and support their stems, that they absorb and hold air, water and mucilage-aliments necessary to vegetable life; and that they even yield a portion of themselves to these aliments. But we have also seen, that they are not equally adapted to these offices; that their parts, texture and qualities are different; that they are cold or warm, wefor dry, porous or compact, barren or pro-ductive, in proportion as one or other may predominate in the soil; and that to fit them for discharging the various functions o which they are destined, each must contribute it share, and all be minutely divided and intimately mixed. In this great work nature has performed her part, but as is usual with her, she has wisely and benevolently left something for man to do.

This necessary march of human industry, obviously begins by a secretaining the nature of the soil. But peither the touch, nor the eye, however practised or acute, can in all cases determine this. Cloy, when wet, is cold and tenacious-a description that belongs also to magnesian carths: sand and gravet are hard and granufar; but so also are some of the modifications of lime: regetable m utd is black and friable, but not exclusively so: for schistons and carbonaceous earths have the same properties.

it is here then, that chemistry offers herself to obviate difficulties, and removed doubts; but neither the apparatus nor process of this science, are within the reach of all who are interested in the enquiry, and we accordingly subjoin a method, less comprehensive, but more simple, and sufficiently exact, for agricultural purposes, and which calls only for two vases, a pair of scales, clean water and a little sulphuric acid.

181. Take a small quantity of earth from different in an oven, heated for baking bread, and after they are diied, weigh them again, the difference, will show the absorbent power of the earth. When the loss of weight in 40u grains, amounts to 50, this power is great, and indicates the presence of much animal or vegetable matter; but when it does not exceed twenty, the absorhent power is small, and the vegetable matter de-ficientity

2d. Put the dried mass into a vase with one fourth of its own weight of clear water; mix them well together; pour off the dirty water into a second vase and pour on as much clean water as before; stir the contents, and continue this process until the water poured off, is as clear as that poured on the earth. what remains in the first employed vase is sand, silicious or calcarious.

3d. The dirty water, collected in the second vase, will form a deposit, which (after pouring off the water) must be dried, weighed and calcined. On weighing it ofter this process, the quantity lost, will show the portion of animal and regetable mould contained in the soil :

4th. This calcined matter must then be carefully pulverised and weighed, as also the first deposit of sand, but without mixing them. To these apply, separately, sulphure acid, and what they respectively loose in weight, in the portion of calcarious or aluminous earths contained in them. These last may be separated from the mass by seap lye, which dissolves them.

there is the light we wanted. In knowing the disease, we find the cure. Clay and sand qualify each other; either of these will correct an excess of lime, and magnesian earth, when saturated with carbonic acid, becomes tertile.

But entirely to alter the constitution of a soil, whether by mechanical or other means, is a work of time, labor and expense, and little adapted to the pecuniary

<sup>\*</sup> Col. John Taylor.

See Davy's elements.

This method of analysing soils, is that described by Mr. Bose, a member of the instrute of France, &c. and recommended to French Agriculturists.

remedy, cusaper, more accessible and less difficult, is found in that great diversity of habits and character, which mark the vegetable races. We shall therefore, in what remains of this section, indicate the principle of these, as furnishing the basis of all rational agri-

1st Plints have different systems of roots, stems and leaves and adapt themselves according to different kinds of soils. the tussila o pref rs clay, the spergula sand, asparagus will not flourish on a bed of grande nor Muscus Islandi cus on one of alluvion. It is obvious, that fibrous rooted plants, which occupy only the surface of the earth, can subsist on comparatively stiff and compact soils in which those of the legiminous and cruciform families would perish from mability to penetrate and divide.

2d Plants of the same, or of a similar kind, do not follow each other advantageously in the same soil. Every careful observer must have seen how grasses alternate in meadows or pastures, where nature is left to herself At one time timothy, at another clover, at a third redtop, and at a fourth blue grass prevails The same remark applies to forest trees; the original growth of wood, is rarely succeeded by a second of the same kind; pine is followed by oak, oak by chesnut, chesnut by hickory. A young apple tree will not live in the place, where an old one has died; even the pear tree does not thrive in succession to an apple tree, but stone will follow either with advantage. "in the Gautinois, (says Bose,) sairon is not resumed but after a lapse of twenty years; and in the Netherlands, flax and kolzat require an interval of six years. Peas, when they follow beans, give a lighter crop than when thy succed plants of another family." (3.)

3d Vegetables whether of the same family or not having a similar structure of roots, should not succeed each other It has been observed, that trees suffer considerably by the neighbourhood of sanfoin and lucern, on account of the great depth to which the roots of these plants penetrate-whereas culmiferous grasses do them

no harm.

4th Annual or biennial trefoils, prevent the escape of moisture by evaporation, or filtration from sandy and arid soils, and should constantly cover them in the absence of their plants; [4] while drying and dividing crops, as beans, cabbages, chickory, &c &c. are best fitted to correct the faults of stiff and wet clays.

5th. When plants are cultivated in rows or hills, and the ground between them is thoroughly worked the earth is kept open, divided and permeable to air, heat and water, and accordingly receives from the atmosphere, nearly as much alimentary provision as it gives to the plant. This principle is the basis of the drill husbandry, ...

6th. All plants permitted to go through the phaces of vegetation (and of course to give their seeds ) exhaust the ground in a greater or less degree; but if out green, and before seeding, they take little from the principle of fertility

7th Plants are exhausters in proportion to the length of time they occupy the soil Those of the cumiterous kinds [wheat rye, &c ] do not ripen under ten months, and during this period, forbid the earth from being stirred; while, on the other hand, leguminous plants occupy it but six months, and permit frequent ploughings. This is one reason why culmiferous crops are greater exhausters than leguminons: another is, that the stems of culmiferous plants become hard and flinty, and their leaves dry and yellow, from the time of flow ering till the ripening of the seed-losing their inhaling or absorbing faculties-circulating no juices and living altogether in their roots, and on aliments exclosively derived from the earth -whereas leguminous or cruciferous plants, as cabbages, turnips, &c. &c. have succulent stems, and broad and porous leaves and draw their principal nourishment from the atmosphere. The remains of culmiferous crops also are fewer, & less easily decomposed, than those of the leguminous family 8th. Meadows, natural and artificial, yield the food ne-

[4] The "Sterilis tellus medio versatur in aestu" of Virgil, shows the opinion he entertained of a husbandry that left the fields without vegetation.

circumstances of farmers in general coronately a present to cattle, and in proportion as these are multipar 1, manures are increased and the soil made better Another circumstance that recommends them is that so long as they last they exact but little labour, and have the whole force of the farmer to be directed to his arable grnunds. [5.]

9th. Grasses are either fibrous or tap rooted, or both: The remarks already made in articles I. 2 & 3, apply also to them. Timothy, red-top, out grass, and rye grass, succeded hest mistiff, wet soils. Sam'our does well on soils the most bare, mountainous and and, lucern and the trefoils, [or clovers,] only attain the perfection of which they are susceptible, in warm. dry, calcareous carth

10. The ameliorating quality of the tap-rooted plants is supposed to be in proportion to their natural duration, annual lover, [lupinella] has less of this property than hiemical [Dutch clover] beennial less than sainfoin; and samforn less than lucern.

it. Any green crops ploughed into the soil, has an effeet highly improving; but for this purpose, lupins and buck-wheat [cut when in dower] are most proper.

12. Mixed crops [as indian corn pumkins, and peas and oats ] are much and profitably employed, and with less injury to the soil than either corn or oats alone.

[5.] The good effect of these mixtures was known to the ancients, from whom the practice has descended to us. What a picture of ferrility and abundance have we in the 22d chap 18th book of Pliny's Natural History; "Subvite seritu frum ntum, mox legamen, decinde olus, omnia, codem anno, omniaque alien umbra aluntur.'

For the American Furmer.

## On Hedging ... No.3.

HOW far the foregoing remarks on the value of a living fence compared with that of a dead one, may preponderate in the minds of others, I must leave them to determine But the consideration of that subject for upwards of tharty years past, has so much weight with me as to produce a resolution to make an attempt at trial. [at least on a small scale ]. Although there were discouraging objections presented, and which probably have had the same iff ct on others; that was the unpleasing appearance of those hedges which had been neglected ever after their being planted and ob taining their growth to matur ty, as nature directed, b coming so high as to obstruct a view over the farm in any direction; and on passing on the public road, hedged on both sides, the traveller is insulited and excluded from all the pleasure of seeing the beauties of a well cultivated neighbourhood which he is passing through Those neglected hedges not only obstruct the view, but occupy a considerable portion of ground that might be better employed, by their spreading side branches to an extent sufficient to afford shelter for the product of briars and a variety of other things pestiferous to a farm occasioned by the dropping from birds, perching on these very convenient resting places as they pass on; the berries and seeds of which, in their turn, invite a visit from the aerial passenger, and keeps up a continued product of those things so pernicious to the far-

The wide-spreading branches of a neglected hedge has ill those base effects, very discouraging to those who believe there is no better way of managing the live fence than to suffer such bad consequences to attend their labours.

On viewing all those inconveniences and disadvantages, I should have declined the propagation of thorn wholly, if I had not believed that they could be cultivated and formed into a neat and durable hedge free from all such difficulties, and have since found it not only practicable, but an easy task, compared with the lawor of fencing in any other manner.

All the ground necessary for a good hedge, is from two to three feet in width; the plough and the scythe should occupy the residue, and from five to six feet in height, is all sufficient to check the most ungovernable

animal on a farm. Another practice prevails with many that have planted, and when grown to a considerable height, cut them down, turning the tops into the road if on a road side or otherwise on the defensive side to form a fences, may be introduced on any farm and at any stage.

while the young shoots from the stump : heige in place of the former. If the top is cut off a holly, it soon decays, but not until abundance of perniclous productions have taken root and risen through the brush wood that lays on the ground.

A third practice is to cut partially off leaving as much of the stock uncut as to retain life, and then turn them down as before, with all the bad consequences as above and the addition of a perpetuation of them. The brush wood continues living, and a new hedge is rising at the same time from the stumps, but the rubbish that has taken root and growing up through this mass of protection that affords shelter for pernicious animals, as well as vegetable productions, such as briars, thistles, mullens, elders, wild grass, and poison vines, as well as many others-necupying a considerable space, forming a hedge row unconquerable, and keeping up a continuation of seed, to be carried by the birds over a whole neighbourhood.

A fourth practice is pursued as a more improved plan, by what is called plashing, or cutting as before. partially, and laid longitudinally, at the same time turning the top end of the cutting to the defensive side and driving stakes upright through the plashing to keep them in their places, heing laid down horizontally one upon another, forming a defence; and also a living hedge-the shoots rising from the roots soon aspire to their original height, drawing the flow of sap, the part laid down naturalty declines in strength, though yet living, as they are very tenacious of life in every posture, while there is any communication with the rootthat circuinstance induced me to attempt to train in another way. This more I readily saw must be renovated by cutting away and laying or plashing again and again in perpetuity; a serious job. If it stands several years, not only the rugged thorn, but every other product associated with it, and twined amongst it, is to

It is not strange that hedging has not progressed, if we suffer a belief that there is no better mode of practice than what generally appears.

## Occasional Extracts of Letters.

#### TO THE EDITOR.

dated-Talbot County, 13th. July, 1819. I saw LLOYD's Chile Wheat, when it was almost fit to cut: it has a very fine large head and stock, but I fear it has too much sagamaking it more subject to rust, or mildew: but aliis may be owing to its being sowed thin. I find amongst the Lancler Wheat, scattering heads all over of a very dark colour, and remarkably large head and fine grain. I have never seen any of this kind before; it has, I think, certainly imbibed the properties of the Lawler Wheat, in its capacity to resist the fly. if so, it is vastly superior to the Lawler, the grain is quite as good and much larger, and in colour resembling the red chaff bearded Wheat. I have picked out about one and a half gallons of it, and shall be particular in ascertaining further its character and qualities. My Ruta Baga looks well-I can see it over the whole ground-one fourth of an acre, sowed exactly according to COBBETT's directions.

## RYE.

#### TO THE EDITOR.

dated-Washington County, [Md ] Aug. 10th, 1819.

Having been indebted to your useful paper, for many valuable suggestions, allow me to contribute a mite towards the improvement of Maryland Agriculture.

A rotation of crops, it is generally admitted, is absolutely necessary in order to perfect our system. As to the most proper rotation, farmers will disagree indeed, what will suit one soil, or one farmer, will not suit another, but rye is a crop which

<sup>[3]</sup> The ill effect of a succession of crops of the same kind was not unknown to the Romans. We have proof of this in the following passage of Festus: "Restibilis ager fit qui continuo bienoio seritur farreo spico, id est aristato, quod, ne fiat solent qui pradia locant, excipere?

te quarters with radishes, spinage, omons, and all the

other seed crops. As soon afterwards as the season will permit, which is generally in February, the same

gar leners begin by sowing the overders and then

It will succeed in fallow, in corn ground, or in stuble. For the last logiteen or filteen years. I have never missed a good crop of Rye-ind the best crop I ever made was in where stubble, ploughed once and harrowed in -and I have every reason to same field for many years in succession.

The great and the only secret in regard to insuring a good crop of Rye, is EARLY sowing. From the middle of August to the middle of September, I Rye. From three pecks to a husbel per acre, is amply sufficient for seed. Early sown rye is much more heavy than the latter; and further, it affords excellent pasture both in the fall and spring, nor does pasturing injure the crop; in many cases it is a real benefit-particularly when eaten down by sheep. Clover also succeeds much better after rye than after wheat \*

By raising tye, a farmer can do with a less quantity of Indian Corn. Rye meal mixed with cut straw is a strong and healthy food for work horses. Fifty acres planted in corn, and sown down in rye, will thus be equal to one hundred acres in corn alone. If the corn ground is rich, it may be sown in wheat, then stubbled and sown in rye.

Rye will be found on rich or on poor land, a gond crop. It is not liable to the ravages of the Hessian fly, nor is it injured by smut and some other diseases to which Wheat is subject. Where land will produce ten hushels of wheat to the acre, it will yield fifteen of rye. Rve is a strong and healthy food for man and beast, and from Rye is produced that reviving and invigorating cordial called Columbia, which ought to supercede the use of PORCIUS. foreign spirituous liquors.†

#### GUINE \ GRASS, &c.

TO THE EDITOR. dated - August 17th, 1818.

Dear Sir-I received from a gentlemen, who got it from Jamaica, about a tea spoon full of Guinea Grass ble place to forward vegetation, about the 10th of April. I could not discover any of it to come up. The first week in May, I sowed another third in a hot bed, and none came up The last of May the remainder was sowed in a drill, and came up in about 12 or 15 days, and is now growing finely, but is a very coarse grass Indeed I am told the seed will not ripen here, as the frost k lls it entirely. I began this letter in the hope of being able to send you some seed, but my messen-

We very often see little or nothing in gardens, from the crops not succeeding each other in the most econom cal mann r. I send you the following from Middle ton's View of the Agriculture of Middlesex, England.

Observations on Gurdens, between Westminster and Chelsea.

Soon after Christmas, when the weather is open, tamable.

ground is planted with cauliflowers from the frames as thick as if no other crop had possession of the ground; think, that Rye may be sown with success in the the radishes &c. are soon sent to market, and when the cauliflowers are so far advanced as to be earthed up, sugar loated cabbages are planted from the aforesaid seed crops. When these are marketed, the stalks are taken ip, the ground cleared and planted with endive and celtery from the aforementioned seed crops, and durly as have always found to be the hest time for sowing these are marketed, the cellery is cropped for winter use. The gardeners agree in one maxim, to dung plentifully, dig the soil well and to sow good seed. The following is the estimate: Radishes, 110 Cellery, 1st crop, 50 to 60 Cauliflowers, 60 to 70 Endive, 30

30 Cellery, Cabbages, Total amount, per acre,

This estimate is stated as under the mark. Some seasons occasion a considerable deduction; but they do not often occur; 1200 per acre is a very low estimate.

Expenses are -Labour, 135 | Rent, taxes & titles, 12 Teams and dung, 25 | Marketing. Total amount of expense,

The farming gardeners, as those who plough, are siof land, and follow this order of cropping:

January and February, early peas, gathered and sold green. In June, the haulm, when dry stacked for horses. The cleared ground is sowed with turnips, which are sold in autumn; the ground then ploughed and plant ed with collards.

There are about 8000 acres cultivated in this mannerproducing 150 per acre.

Gard ns, at heat houses, 200 acres at 1200, is 140,000 surry side of the Thames, 500 acres, at 1150, is 75,000 Wholiy cultivated by the spade, 2 00, at 1120, is 245,000 rarming gardeners, 8000, at 150, is 400,000

Total of acres, 10,000 1645,000 To which add fruit gardens. 400,000

11,045,000 Gardeners provide for their families on few acres of he best ground; as well as the generality of farmers on 150 or 200 acres. There are some gardeners in the commission of the Peace-the profession has produced several Sheriffs of counties, and more who have realized from 20 to 150,000. Mr. Risberry, of Little Sutton, has upwards of eighty acres cropped with asparagus, which 50 shiftings per acre, except cutting and marketing; it is very profitable in sandy land—in kindly growing seasons cutting twice in 24 hours. Profit, 150 per acre, with very little expense.

I will send by the stage some of the Guinea Grass.

With respect, yours, &c.

P. S. The seed is a bright yellow, three times as large as clover, and shaped like wheat.

NOTE The receipt of the grass, in excellent order, is thankful by acknowledged. It was immediately trans-Seed I sowed of this about one third in a very favora-dwelling, where any one having the curiosity, may call planted and seems to be doing well, at the Editor's and see it. The ingenious manner in which it was put up, and sent in good condition, by stage opwards of 40 nules, in a state, apparently as fresh as when pulled up, descrives notice, and may prove useful in like cases -Two bunches of the grass were pulled up with all the dirt adhering to the roots - they were laid between two shangles, the roots of both branches placed together at one end; and the stalks and blades [about 18 inches fer has returned and says, that the person from whom meet at the other end—thus completely protecting the long] placed smoothly between the two shingles which I got my seed, sowed all he had, and none came up: he whok—an old paper is then wrapped over and tied about the whole. A small tree, shrub, or grass of any kind, might, as we suppose, in this way, be safely sent to any distance, by land or water; or more especially, if the earth about the roots were occasionally moistened. Smaci matters and contrivances of this sort, which seem of little import, are often worthy of notice, as the means of r adily accomplishing desirable objects, otherwise not atCOMPENDIOUS DICTIONARY

OF THE

## VETERINARY ART:

CONTAINING

A CONCISE EXPLANATION

THE VARIOUS TERMS USED IN VETERINARY MEDICINE AND SURGERY:

A SHORT DESCRIPTION

THE ANATOMY OR STRUCTURE OF THE EYE, THE FOOT,

AND OTHER IMPORTANT PARTS OF THE HORSE;

PRACTICAL OBSERVATIONS ON HIS DISEASES. As well as those of other Domestic Animals.

From a new English work, bearing the above title. we shall occasionally extract such articles, as shall appear most interestiong-taking them in alphabetical or der, and commencing, now, with the word

ABORTION. Miscarriage, slipping or slink. tuited at a distance from London, and occupy larger tracts ing the foal or calf. Mares, when far gone with foal, if overworked or improperly ridden, are liable to miscarriage: it is caused also by the accidents which sometimes happen at grass; such as falling into a ditch or pit, and struggling to extricate themselves; or being kicked in the belly. In cows, slipping calf is sometimes caused by the smell of blood, carrion, or any putrid animal matter, and the slinking of one cow is apt, from this circumstance, to be Round the ourskirts of London, 1300, at 1100, is 130,000 communicated to others. As soon t erefore as any symptoms of approaching abortion are observed, it is roper to separate the cow from the rest of the herd. The first appearance are generally a sudden filling of the udder, a loose and flabby appearance of the genital parts, which discharge a little red coloured auid: the animal appears to be indifferent in gras zing, and sometimes shows signs of uneasiness or pain .- Cows in good condition are most liable to abortion; and it is well known, that milk fever or inflam nation of the womb, often a fatal disease in cows, seldom attacks such as are rather lean than lat at the time of calving. It has been observed, cost about 1 000 per acre, making; the labour afterwards, that cows more frequently slip their calves at the latter end of the year, than at other times. A cow that has once slipped calf becomes more hable to the accident in future: and as often as the accident suppens, so does the liability to it increase; it is of importance therefore, when a cow has slipped, to remove carefully the cleansings or afterbirth, and never to suffer blood, carrion, or any kind of dead animal matter to be taken into the pasture where regnant cows are kept. Various means have been ecommended for preventing abortion; that is, when those appearances which indicate its approach are inserved. Bleeding, I believe, is the best, it not ne only preventive; more especially when it is aused by bruises or over exertion, or in violent struggling, or being driven about and hurried. And a such cases, not less than from four to six quarts of blood should be taken off, according to the strength of the animal. When the symptoms of approaching abortion appear to arise from other causes; when cows appear stupid, chewing the cud languidly or not at all, an opening drench should dso be given. Take half a pound of sulphate d magnesia . Epsome salt,) three or four drams of aloes in powder, and about three piats of warm gruel-one dose. After abortion has taken place, the cow should be kept in a sheltered place by here

<sup>\*</sup> The Editor is of opinion, that Clover succeeds better with Rye than with any other grain he has ever seen it sown with.

<sup>†</sup> We should rejoice to see Whiskey itself superceded by good Cider and cheap malt liquors. We consider the cheapness of Whiskey and other ardent liquors as a fruitful source of National misery and degradation.-We shall, at some leisur- moment, make a more formar attack upon this " cordial, called Columbia"-in the mean time, we are much obliged to our corresponden for his communication, and think we ought, and hope w shall have the benefit of his aid in promoting the good cause in which we are engaged.

self; if the afterbirth has not passed off, that is, if on a diseased state of the stomach, and that mildfouseless on our roads, or in our streets-looking she has not cleansed, as it is commonly termed, no purgatives are the lest remedics. force or medicine should be used to hasten its re moval. The various drenches that are employed for this purpose, as well as those to prevent abortion, are always useless, sometimes injurious. The same application is applicable to mares that have slipped foal.

Abscess. A swelling generally produced by a bruise, or other external injury, sometimes, however, it arises from other causes, as in strangles .-The swelling is at first hard and painful to the touch, but gradually becomes softer from the upper part towards the bottom. When the whole of the lobservations recently appeared, hency siently de tumour feels soft and elastic, that is yielding to the signed to excite our sympathy towards the distress may be opened with a lancet, or other convenient they have endeavoured to escape in Europe. instrument; a whitish coloured matter will then flow. Of that despotism, however legitimate it may apfrom it, nearly as thick as cream: this is termed pear on that side the atlantic, few who are natives pus. When the extent of the cavity has been as of this country have any correct ideas. Even those certained, by means of a probe or the finger, the who have long since escaped from its oppressions washing it twice a day with warm water, it will soon difficulties of the unhappy emigrant. get well, without further trouble; but if, according A Hibernian by birth myself, I would address neighboring parts are often bruised and inflamed, land of his native and parental attachment. and the cavity filled with tow dipped in some digestive ointment, the cure is protracted, and often eight from whatever cause it proceeds, though cerwork, be employed and receive moderate wages for tive ointment, the cure is protracted, and often eight from whatever cause it proceeds, though cerwork, be employed and receive moderate wages for the consideration of the accommodations with ther a fresh abscess forms, or the matter from being tainly composed of men who wish to cherish bene- which they have been furnished. Let the term of poultices are the best applications; but they should this, confesses himself to be ignorant of any thing be renewed at least twice a day. When poultices manifested by that, or indeed by any other Hiberon cannot be conveniently used, fermentations should an Society, consistent with that benevolence and be substituted for them. An abscess should not be hospitality, for which they take a pride in the cha opened too early, or before the whole of the tumour racter of their forefathers. Tell me ye sons of Hihas become soft; when this does not happen as scon permian characteristic benevolence, how many of as is expected, the bottom of the tumour remaining either your doors, or your purses, are open to dishard while the upper part feels soft, it is better to tressed Irish emigrants? Though many of you ar continue the poultice until the whole has become blessed with profusion, and r ady to run headlong soft, or the upper part opens naturally; this natu-into all sorts of extravagance, how little, extreme ral opening is to be enlarged, should it be found ne-essary; and the poultice continued in order to life of the distresses of the emigrant! As often as soften or induce suppuration in the remaining hard the tales of that distress reach my ear, how do i swelling. When sinuses or pipes are discovered, blush for the little efforts of our scanty benevolence! and Ulcers.) Abscesses are cometimes said to be summer? critical, or a consequence of fever or some other been thought to be beneficial.

example, where horses eat their litter in preference name of MAN. to good hay, and are often seen licking the walls. Alas! when my eye meets, which of late is no and eating any earthy matter that comes in their seldom, the friendless emigrant—and a parent—ac

(To be continued.)

## THE FARMER.

BALTIMORE, FRIDAY, AUGUST 27, 1819.

THE EMIGRANT.

FOR THE AMERICAN FARMER. -0-

Mr. Epiton.-In one of the daily papers, som-

to the common mode of treatment, only a small myself chiefly, to the feelings of those, who have opening is made, the matter then pressed out by ever known or experienced any of those oppressive squeezing with the fingers, in which operation the ills which have forced his fellow emigrants from the

It is not so much from National attachment, as reciprocal.

n at every door-but no door open for hospitable oception-with a countenance rueful with reflection on all the ills, and heart rending attachments t has left-and now like the dove of the Patriarch, finding in this, yea even in this wide and happy country, not a spot whereon to rest the weary head or feet-is it possible to restrain the tear of sympaby? Shall this for lorn situation of the friendless tranger excite no regard? Am I man, and shall I of he prompted to cheer and relieve my fellow en? Am I'a christian, and shall I dare to risk the boon denounced by my Saviour against those who take not the stranger in."

How levely is that benevolence, which, without pressure of the finger, but immediately rising agained and disappointed emigrants who have taken re-hope of reward, or fear of penalty, has even the when the finger is removed, it is said to be ripe, and toge on our shores from that despotism from which semblance of being entirely disinterested? But where-ah, where shall we look for its angelic face? If, therefore, in these sad days of imperfection, our benevolence must be either founded on, or slended with sordid interest. do Mr. Editor, submit to your many enlightened readers, especially to whole is to be laid completely open. By this me, and are now, or recently have been, in the full tide such of them, who, as wealthy and extensive farmthod all the pus will freely escape, and merely by of prosperity, seem, in some degree, callous to the ers and land holders, might lend their benevolent aid and influence to the following plan for the relief of emigrants.

Let such have erected on their lands, a few decent log-cabins, as an asylum for such friendless and destitute enugrant families, as they could accommodate. Let such of these as are able and willing to (work, be employed and receive moderate wages for confined, spreads into other parts, so as to lorn volent principles towards those whom they have their occupancy of these asylums, be at their opwhat are termed sinuses pipes. To hasten the pro-pledged themselves to aid and encourage; yet I say tion, but not exceeding a certain period agreed upcess of suppuration, or the formation of matter, to whatever cause it may be owing, the writer of on. And when employed, the wages and encouagement given to them, be in proportion to their merit and diligence.

They would thus be enabled immediately on their arrival, to resort to at least the shelfer of a house -and if entirely destitute, have some prospect of sustenance for their family. They would also be mabled to acquire a knowledge of our modes of laour and agricultural improvement—and would be aved from the corruption of the dissipated, who e in wait, either to rob them of any little they ossess, or to seduce them to share in their own dle and profligate habits.

I presume there can be little doubt, that were roper pains taken to inform emigrant families, that they are to be laid completely open, and washed with a solution of him vitriol or other detergent and there, a casual, trifling boon is bestowed such asymms were ready to receive them, they would be induced to resort to them immediately on their arrival—and it would then become the duty would be induced to resort to them immediately on the lungs, liver. &c. (See Poultice, Fomentation, fort, on any liberal or effectual scale, the many of the Hibernian Society, to see that the advanta-Tumours, Strangles, Vives. Fistala, Poll-evil claimants that present themselves, especially in the ges to the proprietor who had prepared these asylums, and to those accommodated, should be justly

general indisposition; in which case they have from that duty which is religiously enjoined upon all Indeed I have often thought it strange, that the who call themselves christians, that it would become Hiberman Benevolent Society, long ere this time, us to cherish benevolence towards the enogrant had not, on some proper plan, possessed themselves ABSORBERTS. Chalk, prepared oyster shells, stranger. What a sublimely pathetic appeal to of a few hundred acres of land, and have put up, for bole, and other cartles, that readily absorb fluids, are our hearts is made by the Divine author of that this purpose, a lew cabins for destitute emigrant thus denominated. Preparations of this kind are religion we profess! "I was a stranger and ye families, or individuals, to be sheltered and employsometimes given with a view to absorb or correct tor k me not in !" Let the heart that feels not alled antil they could befter dispose of themselves." any hurtful matter that may be supposed to exist in the moral bearing and obligation of these sacred such a property might be rendered mutually benethe stomach. In cases of depraved appetite, for words, go to its kindred brute-and renounce to local. The land would be cultivated by the eminants-its value, in time, greatly enhanced-and annual produce might by economical management ot only sostain such hands as would be permanentway, such medicines are recommended. It is more infant in the hand-or on the bosom-that may ye fly employed on the place; but the surplus, when probable, however, that this disposition depends up-light the battles of this, my country-wandering stored, and carefully preserved, might supply such

VOL, L., NO. XXII.

emigrants as might be accommodated on the ensu-

Such an asylum is certainly neither impracticable nor is it discouraging with respect to expense. By proper management it might be brought to support itself. And should the society at a future period be disposed to sell the land, when thus highly improved by culture, with the proceeds they might do more than purchase a new asylum or establishment, to be improved in like manner.

Thus, in a progressive ratio, they might enlarge the bounds and increase the value of the property. Other Benevolent Societies, the St George's, St. Andrew's, St. Dennis's, &c. might follow their | previous quotations. The trade have bought sparingly example, and a landable rivalship he raised and supported among all the benevolent patrons of the honest and industrious emigrant. Each farm might thus be rendered an agricultural school for exhibiting their respective National improvements in farming-and some premiums might be conferred on those who manifested most merit or diligence, or who introduced any agricultural improvements into the country of their adoption. BENEVOLUS. August 14th, 1819.

Escape from the Penitentiary.

Nine prisoners made their escape from the Penitentiary in this city, on Sunday night last, under circumstances leaving little doubt that they were aided by some person or persons at liberty. On Monday, says the Gazette, the several officers of the Penitentiary were examined hefore Judge Brice, respecting the circumstance of their escape. It appeared that the locks of the doors of three of the rooms in which the criminals lodge at night, had been unlocked; the locks being on the outside of the room doors, in a passage in which the guard was accustomed to walk: that the only person on guard when they escaped was Richard Chapman, who stated, that the criminals after getting out of their lodging rooms, knocked him down, and passing him, eseaped at the front door; that he fire t a pistol after they passed to alarm the keeper and officers.

The explanation of Chapman being unsatisfactory, and the circumstances being such as to induce strong suspicions of his having aided in or connived at the es-

cape, he was committed for trial.

## ATTEMPT AT ARSON.

A most daring attempt was made on Sunday night last, to fire the house of Mr. Isauc Mordevai, in Low St. by a negro woman and girl. He succeeded in securing them both, and had them committed for trial.

Four Captains and a Lieutenant of the Navy, have been suspended from command, by Commodore Stewart, of the Mediterranean squadron. It seems, if report be correct, that the Commodore saw fit to reprimand them in consequence of disapproving of a sentence of a ourt martial of which they were members - and a reply from them caused their suspension. The gallant M' Donough is said to be one of the officers suspended .-

[ The frequent disagreements which have taken place between our naval officers, since the war, is a su' jeet of mortification and of deep National regret .-We are aware, that where high and honorable feeling is to be maintained, that frequent collisions may arise where tempers are not properly chastened; and differ ences of opinion, impetuously defended, too frequently lead to results, deplorable in a National point of view. unhappy as it regards the families of the individuals. & derogotary as they themselves are concerned. We could wish, in common with our enuntry, most sincerely and ardently, that these unfortunate occurrences were less frequent; that discipline might be maintained without assumption; and inferiority confessed where no degradation is implied. And we wish also, that where differences do arise, they might be bottomed no more substantial ground, than has been made to justify several regretted incidents that have taken place.]

The extensive Printing establishment of Messrs Bensley & Son, in London, was lately consumed by fire.

Loss estimated at 1130,000.

Liverpoot Markets-July 5, 1819.

Our Cotton market has exhibited this week more life than we have experienced for a long time past, but principally in American descriptions, in which considrable business has been done on speculation, in consequence of which disposition, holders have, within the last two days, obtained an advance of 1-2d per lb. on Boweds and New Orleans, and other descriptions have fully supported former rates, though the demand has been comparatively limited

Tobacco still exhibits a tendency to decline; particularly qualities suitable for export. Kentucky leaf has depreciated 3-4 a 1d per lb. a parcel having been sold at 3.1-41 with some ordinary sound Virginia, at 3-2d per lb; good ordinary to middling, however, support the

American Stocks-U S. Bank, 120 5s has been offered and refused: U. S. 6 per cents, 98 a 100: Spanish Dol-

lars 5s 1-2d per ounce.

Imports of Foreign Corn-The ports are now closed against the importation of Foreign Barley, Oats and Peas, from all ports between the Byder and Bidassna: for all these recited articles the ports will continue open for the importation from all other countries, till the 21st August next.

#### EXTRACT OF A LETTER

From an American gentleman at Fayal, dated 13th July. "The Russian frigate Kamschatka, that has been nearly three years on a voyage of discovery, stopped here on her return home, and remained three weeks-The commander, Golownin, is celebrated from the circumstance of his captivity several years in Japan, and his account of that country, now passing the rounds of the periodical publications. He, with the principal of ficers and scientific gentlemen of his suite, were entertained by Mr. Dabney, the United States' Consul at the celebration of Independence, at his house, and all expressed the highest respect for our country and republican institutions. The dinner was succeeded by a ball, attended by a 120 ladies and gentlemen, highly gratifying to the Russian guests.

The landscape painter did the Consul the favor to sketch that part of the town and harbour where the attack on the Brig General Armstrong took place, which he has forwarded to Capt. Reid, who so gallantly de-

fended that vessel.

It is understond that the want of such a drawing has retarded the execution of an engraving representing that extraordinary action.

## From the Archives of Useful Knowledge. TO CONVEY FISH.

A erumb of bread is to be soaked in brandy, and when swelled the fish's mouth is filled therewith, into which a halfglass more of the spirit is then to be pour-The fish remains motionless, and as if deprived of life, in which state it is to be wrapped in fresh straw, and afterwards in cloth. In this condition they may be kept, or conveyed to any distance for 8 or 10 days.-When arrived at the place of destination, they must be unpacked, and thrown into a eistern of water, where they remain a quarter of an hour, or sometimes an hour without shewing any sign of life; but at the end of that time they disgorge very abundantly, and recover their life and ordinary motions.

Catfish may be conveyed in a cart for many miles, by being surrounded with fresh grass, provided spring water is frequently dashed over them. The journey ought to be commenced a little before day, so that the fish may be put into a pond destined for them, before the

heat of the day.

Doet. Mitchell, of New-York, relates, that in 1790, he in company with another gentlemen, transported yellow pereh 40 miles, viz. from Rockonkoma pond, in Suffolk county, to Success pond, in North Hempstead, Long Island. Three dozen of those who had been most superficially wounded by the hook were taken, and all except two swam away when put into the pond A large churn was filled with the water of their native poud, and so few fishes put in that there was no necessity of changing it on the road, and afterwards driving steadily on a walk the whole distance, without stopping to refresh either man or horse. In two years these fishes multiplied so fast, and became so numerous, that they might be eaught with the book in any part of the water, which was about a mile in circumference.

Pittshurg, Penn. Aug. 13 .- The depredations now committing by the Grasshoppers, in some parts of the country, are touly singular and alarming. Many farmers have commenced cutting their oats perfectly green, and many meadows are shaved completely smooth -An instance has occurred, of a hat accidentally left io a meadow, being entirely destroyed.

#### DIED.

At Cambridge, his residence, on Tuesday morning 3d inst. Levin II. Campbell, Esq of a sudden and vio-lent bilious disease, which in the short period of two days, from the highest health and spirits, bereaved a wife of the most kind and affectionate husband, an infaut family of the most tender and doating father, two helpless sisters of their only friend and protecter, society of a member whose loss will be deplored while virtue is regarded, and has inflicted on at least one bosom friend, a wound never, never to be healed.

In the meridian of life-in the zenith of a character constituted by the most amiable as well as brilliant qualities that adorn the soul of man-vanished this

mortal ornament of human nature.

Possessed of a strong and vigorous mind, highly cultivated by diligent application, and an ardent thirst for knowledge, he attained an unusual proficiency in the various departments of science, which rendered him highly useful to the society in which he resided from

Kind, benevolent, hospitable and generous, he was

beloved by all who knew him.

Charitable to excess, and beyond the prudential allowance of his limited finances, the indigent widow and the helpless orphan will long deplore the irreparable loss of their dear friend.

Possessed of a lively mind, a social disposition, and versatile talents, every class and condition of man were made happy in his company ; -- his correct principles, and deportment, his pure and sympathising heart, riveted and secured forever the affections he had work.

That he was sincere and immutable in his friendship, the mournful author of this faint picture can bear witness, from the enjoyment of his unlimit d confidence, and of a mutual and uninterested friendship, love and harmony from their early youth, at college, (a period of twenty five years) to the sad moment when the fell messenger of death summoned him to his God, in the fullness of his virtues to appear at the bar of infinite Justice, to be recorded in the book of life cternal.

Cambridge, Aug. 5, 1819.

## ERRATA.

Mn. Skinner.-Please to correct the following typographical errors, in the piece signed Silvanus, in your paper, No 1, viz:-

In the third line after the names of Dr. Stillwell and Roboson, read for gentry, gentlemen. (These Doctors only made trial of a popular nostrum; they did not introduce it.) In the 5th line of the paragraph next to the last, read, for heap up, beat up. In the same paragraph, read for bausu, Bongee. Yours, Silvanes.

### NOTICE IS HEREBY GIVEN,

That we cannot receive for this paper, the notes of any Bank which are selling here at a discount of more than ten per cent-or rather when received, the subseriber can only have credit for the amount realized by the Editor on the sale of said notes. South Carolina money will be received at par.

Staples of North Carolina, reported by Sweeting & Sterrett, from actual sales for the American Farmer. Turpentine, soft, 52; Tar, \$1-75, sates, Spirits Turpentine, 40 a 45 ets; Varnish, 35; Rosin, dull, \$2; Pitch, scarce, \$3; Beans and Peas, 80 a 100 ets.; Bacon, hog round, 12 a 13; Cotton, upland, 15 a 17.

PRICES OF GRAIN AND TOBACCO, REPORTED FOR THE AMERICAN FARMER, BY W. H. DE WRIGHT, FROM ACTUAL SALES.

WHITE WHEAT-Sales on Monday last, at 1 13 to \$1 15-Yesterday, 1 18 to 1 22 1-2 best quality. Red Wheat—Sales on Monday \$1 10. Yesterday, at \$1 13 Corn, 58 to 60—Oats, 45 to 50 cents—Rye, 50 to 55 cents—Tobacco, 6 hogsheads from Calvert County, sold by J. Spicknall, at 8 and \$ 0-nne do at \$1,-two hogsheads wagon Tobacco, 10 and \$13.

## PRICES CURRENT

#### AT BALTIMORE:

L.M. Revised and Corrected every Thursday

Carefully Revised and Corrected eve	ery Thursday.
77 11 11 11 11 11 11 11 11 11 11 11 11 1	RETAIL PRICES
BEEF, Northern mess) - bbl.	
No 1 Swhotesate.	121/2
Bacon, 1b.	16
Butter, Ferkin, wholesale.	18
Coffee, first quality,	33
second do.	27 28
Twist, No. 5,	41 45
No. 6 a 10,	75 46
No. 11 a £0,	53
No. 20 a 30,	75
Chocolate, No. 1, No. 2,	28
No. 3,	25
Candles, mould, box	
dipt,	18 19 45 scarce
Cheese, American, lb.	10 15
Feathers,	60 65
Fish. cod. dry	
herrings, Susquehannah, bbl. mackarel, No. 1 a 3	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
shad, trimmed,	7 75 7 87
Flour, superfine,	5 50 6
fine, bbi	. 5 5 50 4 50 5
middlings,	4 a 4 25
rye, Flaxseed, rough, cas	k none.
cleaned, bus	
Flax, - lb.	do 12 15
Hides, dryed, Hogs lard,	12 13
Leather, soal,	25 30
Molasses, Havana, gal	
New Orleans, -	50 60
sugar house, gai	
PORK, mes- or 1st quality, - bb	l. 18 a   19
prime 2d do	15 a   16
cargo 3d do	14 a 15
ground bb	
Rice lb.	
SPIRITS, Brandy, French, 4th proofga peach, 4th proof	1. 2 2 50 1 25 1 50
apple, ist proof	75
Gin, Holland, 1st proof	1 25 1 5
do. 4th proof	50 6
do. N. England Rum, Jamaica, -	50 6 1 50 2
American, 1st proof	50 6
Whiskey, 1st proof	35 4
Soar, American, white, lb	9 1
do. brown, Sugars, Havana, white,	19
brown, N. Orleans, -	11 12
loaf,	25
Salt, St. Ubes, b	u. 20 a 2
Liverpool, ground,	75 1
Shot, all sizes, It	
	wt 7
do. middlings, Rappahannock,	6 50 5 5
Kentucky, -	6 50 7
small twist, manufactured,	b. 25
pound do	50 63
TEAS, Bohea, 1	b. 75 a 1
Hyson Skin	75 a 1
Young Hyson,	1 25 a 1
Imperial,	1 75 80
WOOL, Merino, clean, unwashed, -	40
crossed, clean,	65
unwashed, -	35
common country, clean, unwashed	\$7

## HUMOUR.

REVENGE; OR FATHERLY KINDNESS. A vixen wife who felt the horsewhip's smart, Ran to her father-begg'd he'd take her part, "What's your fault?" said he; "come, state the case." "I threw some coffee in my husband's face, For which he beat me!"-" Beat you, did he! s'life! He beat my daughter! zounds! I'll beat his wife; If for such faults he gives my daughter pain, Come but his wife-I'd whip her home again."

#### CLERICAL EPIGRAM.

To the bedridden rector the curate did step in, The state of his health to inquire of his wife-And found him departed-the widow sat weeping, "Bewailing the loss of her comforts in life."

"In this valley of tears," the kind curate replied, "From some the Lord takes, and to some he is

It is your duty now, Ma'am, to mourn for the dead, But 'tis mine to be off, and look after the living."

ON GENTLEMEN WEARING STAYS. And why not wear them !-tell me, if you can: "Tis but the far prerogative of man! Woman stole his rib; -can you then condemn, That a mere whalebone he should steal from them? Tis strange tha satire all the world bewitches, 7 Men may wear stays-since women wear the breeches.

#### LIFE.

Our life is nothing but a winter's day, Some only break their fast and so way; Others stay dinner, and depart full ted : The deepest age buc sups, and go is to bed: He's most in debt, who largers out the day; Who dies betimes, has less and less to pay

#### GENERAL BOYD.

The British House of Commons passed a resolution on the 28th June, to allow Gen Boyd, a native of the United States, talely of the army, 6000 pounds sterling, in consideration of his services in the British army in India, at an early period of life, when the affairs of that nation, in that quarter, were in a very critical state. Mr Wilberforce, who brought forward the resolution, stated, that it was very desireable to show the inhabitants of the United States, by the proceedings of the British House of Commons, that they do not consider them with any unfriendly feeling, or entertain towards them any prejudices incompati le with the full performance of justice -N. Y. Ev. Post.

CIRCULATION OF THE LONDON OBSERVER.

The Editor of this Journal, which is issued only once a week, has published a detailed statement of og the sale of his publication, during the year ending 25 on the 2d May last. By this statement, it appears, the total number in the year, 602,224. sume there is no other weekly paper, published in 50 any other part of the world, which has so great a 50 circulation. The Editor closes his detailed statewholly uninteresting for the reader to know, that 20 the amount paid to the Revenue for six hundred and two thousand and twenty-nine pounds, independent of the excise upon twelve hundred and four reams of paper, at three pence each pound weight, and the duty of three shillings and sixpence upon every advertisement, making a total sum contributed to the Revenue by the Observer Journal, in one year, about Ten Thousand Pounds, and that for only fifty-two publications."

COMMUNICATED FOR THE AMERICAN FARMER.

#### LETTER FROM AN OLDER TO A YOUNGER BROTHER.

dated -----, August 4, 1819.

I am very happy to learn that you have commenced business for yourself. You have now entered upon the solid realities of life, and you will soon find, that all those vain and illusory prospects which present themselves to every young and ambitious mind, will be dissipated and give place to sober reason and chastened experience. What you have hitherto viewed only in perspective, you will now realize, stripped of all the gaudy tinsel, and deceptive drapery, which (although illusory) captivate and enchant the youthful mind, and stimulate him to laudable, enterprising, and meritorious achievements.

It is however, a lamentable fact, that whatever our acquisitions may be, however much we may excel in any art or profession, self love, or in other words, vanity, is so predominant a quality in the human mind, that we seldom or ever realize, to the full extent what our busy imaginations would seem to promise us. Experience, is the only standard, by which we are enabled duly to appreciate the extent of our own powers; she is invariable and impartial, and however bitter the pill we have all got to subject ourselves to her admonitions .-She is indeed "the mother of wisdom," and he who obeys her precepts will seldom err. Riches, honours, and preferment, are not the beings of a day. Patience, steadiness, a resolute and unyielding perseverance, is the price they exact from us, and we have no right to complain, as there is no exception to the rule. Fortune is pretty uniform in the dispensation of her favours, and they all he more or less within the compass of our own powers

I have thought proper, thus far, to moralize and philosophize, lest you might have started into life with also notions, either of yourself or of the world, for either will be productive of chagrin and disappointment. I speak experimentally, and you are entitled to the benefit of it I commenced life with prospects as dutering and illusory, perhaps, as ever amused the vanity of a young man. My youthful efforts appeared to be crowned with success. Honors and preferment lay before me; it was a bed of roses. I suffered myself to be flattered by fools. I wis, in fact, absorbed in self lave; a moving, ridiculous mass of vanity. I basked in the sunshine of public favor, and from 18 to 25, had not a rational idea of myself. At that period of maturity, I fortunately, (though very much to my own mortification,) became convinced that I was a Foor, that I had been deluded by empty visions and fautastic dreams, from that day forward I at least became lucid; and if I have any thing of solidity to boast of in my character, at this time, I am confident I acquired it, subsequent to the period I have mentioned. I don't know that you stand in need of example or precept: if you do, the picture which I have drawn of myself may serve as a standard, by which to graduate your own character; let it serve as a heacon, by which you will be enabled to avoid the shoals and quick sands by which I was enveloped

Recollect you are now among strangers, capable of that the smallest number of papers issued on one day was 10.400; the largest number 13.925, and cording to your merits. You must not be disappointed if you do not immediately succeed to your wislies; the time of your commencement, is rather inauspicious and you are not yet established; for the present, therefore, you ought to be content with a comfortable subsistence. Patronage, you will acquire by acquaintment with the following remark:-" it may not be ance and good conduct.-It is a good maxim of Marmontel, "never to despair of your own efforts, nor to be too confident of success." Let your deportment

at any rate, be such as to deserve it.

PRINTED EVERY FRIDAY AT \$4 PER ANN.

## FOR JOHN S SKINNER, EDITOR,

At the southwest corner of Market and South-streets, BALTIMORE.

E. FRENCH, PRINTER,

## RUBAL EUOYOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

" O fortunatos nimium suu si bona norint " Agricolas." . . . . VIRG.

Vol. 1.

## BALTIMORE, FRIDAY, SEPTEMBER 3, 1819.

Num. 23.

## AGRICULTURE.

Mr. Madison's Address.

An Address delivered before the Agricul TURAL SOCIETY OF ALBEMARLE, [VIRG ] ON TUFSDAY MAY 12, 1819. By Mr. Madison. President of the Society.

[Concluded from No. 22, page 171.]

But it is as a resource for re-fertilizing the soil must be least considerable. The same qualities fertility. which render every part of it nutricious to animals, render it nutricious to the earth, and it is accom-

(there being no other intervening crop not so re-lis, contains a volume of instruction. us in the face, that our most impoverished fields, substance enters into the substance of the plant. - soil would return to it. even the most level of them, owe their condition Without doubting the fact, it does not sufficiently

nure for gardens and culinary crops.

in t e more Southern and the South-Western States. is but little cultivated in Virginia, and scarcely at all

in this part of it. I am not able to say how far it plant to a more active use of its feeding powers, is comparatively an exhausting crop. But it would whatever they be: or by its accretion and assimuseem to be more capable than any other crop, not lation to particular parts of plants on which these wholly consumed within the larm, of preserving its powers depend; thereby augmenting and strengthfertility. The only part of the plant carried away is ening those particular parts, and enabling the the cotton fibre or wooly part, which bears an incon-feeding powers to give proportional augmentation siderable propo tinn to the other parts in weight and to every other part: whether by any one or more as may be interred. in fertilizing matter also. The of these processes, or by some other or others disseed alone, passing by the ball and the haulm, is inct from them all, the growth of plants be prothree times its weight, and contains the chief part moted by this mineral, remains, it would seem, to of the oil in the plant. In the countries where cot- be yet explained. In the mean time, a more exthat the corn stock finds the proper place here; and ton makes the principal part of the crop. the su tensive use of it, promises much advantage to our as such it merits particular notice; whether it be perfluous seed must deserve great attention as a agriculture. I take it, however, that this advanpassed through animals, or be prepared by fermen-manure Where the fields are level or cultivated tage cannot be permanent without making the intation in the farm yard; or be merely spread on the in vorizontal drills, it might go far towards sup-creased product of the soil, a source of manure to surface of the earth, the mode in which its effect porting a continued cropping without a diminished the soil. That the effect of the plaster will be con-

weight of the plant, which greatly exceed the quan-The cotton plant, which is so extensive a crop, from the earth, the air or water; or by exciting th

tinued indefinitely, under a constant removal of the The sum of these remarks on cultivating poor whole crop from the soil, surpasses belief. It can land, and neglecting the means of keeping or mak-scarcely fail to exhaust at length, the productice panied with the peculiar advantages: 1, that the ing land rich is, that if every thing grown on a soil powers of the earth. The period of time necessagrain itself is mostly every where, and altogether is carried from it, it must become unproductive; the try for the purpose, may be uncertain; but that as in in places distant from navigation, consumed within if every thing grown on it he directly or indirectly the case of other mineral manures. lime and marl, the farms producing it; 2, that as the grain is in restored to it, it would not cease to be productive: such must sooner or later, be the result, cannot well greater proportion to the space on which it grows, and, consequently that according to the degree in be so. The effect of pulverising the earth by tile than most other grains, so the rest of the plant is which the one or the other practice takes place, a lage, as practised by I'uli, is stated to have been in greater proportion to the grain, than the rest of farm must be impoverished, or be permanently pro- uninterrupted crops of wheat, without manure, for any other grain plant. The straw and chaff o the ductive and profitable. Every acre made by an more than twenty years; which was regarded as a smaller grains, as already remarked. is in weight improved management to produce as much as two demonstration, that tillage was a complete substibut about one hall the grain. The coin stock with acres, is in effect, the addition of a new acre; with tute for manure. Supposing the statement to be all its appurtenant offall is of not less than three the great advantages of contracting the space to be free from error, the inference is certainly not wartimes, and if taken early from the field, probably of cultivated; and of shortening the distance of trans franted by the fact. We know that some of our not less than four or five times the weight of the portation between the fields, and the barn or the soils, not naturally richer than the highly manured grain belonging to it 3. the fertilizing matter con- arm yard One of the Roman writers,\* on hus- soils on which Tull probably commenced his tillage, tained in the corn stock is greater, in proportion to bandry, enforces the obligation to an improving will bear a succession of crops for an equal periits weight, than that contained in the straw and of management by a story of one P radius who had od; and we know as well, that their fertility will fal of other grains is to the weight of the straw and two daughters and a vineyard. When the elder was not hold out forever. How long plaster, whatever married. he gave her a third part of the vineyard; be its mode of operation, will hold out, may not yet Would it be hazarding too much to say, that notwithstanding which he obtained from two thirds have been fully tried. But to make it permanentwhere a level surface or the mode of cultivating a the same crop as from the whole : when his other by successful, it will be wise to take for granted, hilly one, prevents the rains from carrying off the daughter was married, he portioned her with the that it must be made a source of future manure, as soil, a restoration of an entire crop of Indian corn. half of what remained: and still the produce of his well as of immediate productiveness. If the crop, in the form of manure, to the space producing it vineyard was undiminished. The story, short as it as augmented by the plaster, be given back to the soil, the soil may be benefitted more than it would stored) would replace the fertility consumed by the | The plaster or gypsum, though not a manure be by the return of a crop not augmented by the crop, and maintain a perpetual productiveness?— within the farm itself, has been too long neglected plaster. And in this way fertility may be accele-Reason, the case of forest and fallow fields, where as a fertilizing resource. It is now beginning to rated. The restoration of a crop, increased by orthe spontaneous crop falls back of itself, to the take a high and just rank as such. The proofs of dinary cultivation, to the soil on which it grew, earth, and the Chinese example, where the cultivalits efficacy are as incontestible as the causes of it would, I presume, fertilize it more than the restoted crop is restored to the earth, all pronounce that are obscure. The experiments of a very distin- ration of a smaller crop spontaneously produced; such would be the effect. And yet the fact stares guished chemist, ted him to the opinion, that its although in both cases, the whole taken from the

IV. Among the means of aiding the productivemore to the crops of Indian corn, than to any other account for the addition made to the size and ness of the soil, which have not received merited attention, is irrigation. In scarcely any country The articles of fodder, which are least neglected tity of the plater It must therefore, have some does this resource abound more than in the United as a fund of manure, are timothy and clover hays. further mode of operating. Whether it be by neu States; nor is there any where there is so little But the average quantities on farms, is not as yet, tralizing some noxious ingredient in the earth, one sensibility to its value. The inconsiderable use very great; and seldom yield more than stable ma of the modes by which lime is supposed to operate made of it, is chiefly by emigrants, particularly or by attracting and conveying to the plant, food Germans, or the immediate descendants of them. I have understood that the market of Baltimore, has been much benefitted in dry seasons by the irrigation introduced by exiles from St. Domingo.-

\*Columella.

Sir H. Davy.

stated, that in the neighbourhood of Barcelona in ing broken, a new one is to be formed. Spain, where a part of the land is under irrigation, and a part is not susceptible of it, both being oth The constitution of the ox accommodates itself, as ly pay for the carriage of the market portion of the erwise of equal fertility, the part irrigated is of readily as that of the horse, to different climates, crop, and balance, moreover, any difference bedouble price in the market. It is to be noted in Not only in ancient Greece and Italy but through tween the value of the grass and hay consumed by deed that the climate is a dry one, and that the ar-out Asia, as presented to us in ancient history, the oxen, and the value of the oxen when slaughtered ticle cultivated is Lucerne. But this is a plant, ox and the plough are associated At this day, in for beef. In all these calculations, it is doubtless which though much aided in its growth by moisture, the warm parts of India and China, the ox, not the proper not to lose sight of the rule, that farmers is at the same time remarkable for the length of a horse is in the draught service. In every part of ought to avoid paying others for doing what they tap-root, and fitted by that, as well as by the ab-India, the ox always appears, even in the train of can do for themselves. But the rule has its excepsorbent quality of its leaves, to flourish in a thirsty her armies. And in the hottest parts of the West tions: and the error, if it be committed, will not lie soil, and warm climate Our particular district of Indies, the ox is employed in hauling the weighty in departing from the rule, but in not selecting acountry, abounding in springs, small streams, and produce to the sea ports. The mistake here, as in right the cases which call for the departure. It suitable declivities, admits greatly of irrigation; the former case, has arisen from the effect of an oc-may be remarked, that the rule ought to be more or and being generally of a thirsty nature, the more casional employment only, with no other than green cess general as there may, or may not be at hand, strongly invites the use of it.

husbandry, that oxen are too little used in place of will readily account for his sinking under his exer

animals, favors a preference of the ox But, the of it; and the grain generally given him is Indian may be safely appealed to on this point. corn the crop which requires most labour and greatly exhausts the land

would of course be retained for cultivation. Every have once had it? one can figure to himself the ease and conveniency pasturage and hay.

require grain food as well as the horse? Certainly turnpiked, the roughness of the surface in the for-plight. If a poor farm be unprofitable, so are poor much less, if any Judging from my own observa- mer case, and its hardness in both cases, are incon- eattle. It is particularly the case with the milch tion. I should say, that a plenty of good grass or venient to his cloven hoof. But where the distance cows. When the whole of the food given them is deration for a double consumption of that kind of

The objections generally made to the ox are-5. That he is less fit for carrying the produce of the farm, as well as for the horses. the farm to market.

Of the two animals, the ox is the more do-

For a distinguished proof of the importance of the casional use of him only, with long and irregular the other scale, the value of the corn, amounting to practice, I may refer to the fact which has been intervals; during which, the habit of discipline be-one half of the crop, and of the grass and hay con-

The second objection has as little foundation —

circumstance particularly recommending him is, ox can, by a proper harness, he used singly as well which renders every thing raised on a farm more that he can be supported when at work by grass as the horse, between the rows of Indian corn; and convertible into money than formerly; and as the and hay whilst the horse requires grain, and much equally so used for other purposes. Experience change proceeds, it will be more and more a point

From the best estimate I have been enabled to degree than is often taken for granted. Exen that ways be prudent for reasons which every expeform more than one half of the corn crop is consum- are well chosen for their form are not worked after rienced farmer will understand, to ean to the side ed by horses, including the ungrown ones; and not the age of about eight years, (the age at which they of doing, rather than hiring or buying what may be less than one half, by other than pleasure horses are best fitted for beef, are not worked too many wanted By getting free from this consumption, one half the together and are suitably matched, may be kept to labour no of the wear of the land would be saved, nearly as quick a step as the horse May I not say, tween he ox and the horse, preferable to the latter, or ra her more than one hall; for on most farms, a step quicker than that of many of the horses we inferior to the former, but so well adap ed to parone half of the crop of corn grows on not more than see t work, who, on account of their age, or the ticular services, that he may find a proper place on two-filths, and sometimes a smaller proportion of leanness occasioned by the costliness of the food many farms. He is liable to the objection which the cultivated fields; and the more fertile fields they require, loose the advantage where they might weighs most against he ox. He is less fitted than

! he last objection has most weight. The ox is of a revolution which would so much reduce the ex not as well adapted as the horse to the road ser the older settlements, is that of keeping too many tent of his cornfieles; and substitute for the labour vice, especially for long trips. In common roads, neat cattle on the farms. As a farm should not be bestowed on them, the more easy task of providing which are often soft, and sometimes suddenly be-But will not the ox himself when kept at labour, his leg, are disadvantages; and on roads frozen or good hay, will suffice without grain, where the la to market is not great, where the varying state of necessary to support a lean existence, no part can bour is neither constant nor severe. But I feel the roads and of the weather can be consulted; and be spared for the milk pail. The same food, given entire confidence in saying, that a double set of ox where the road service is in less proportion to the to the proper number, will not only keep them in a en alternately at work, and therefore half the time farm service, the objection is almost deprived of its thrifty state, but enable them to supply the dairy. at rest, might be kept in good plight without other weight. In cases where it most applies, its weight is Even the manure from several poor cattle is worth less food than a plenty of good grass or good hay. And diminished by the consideration that a much greater than that from a single fat one. The remark holds as this double set would double the supply of beet proportion of service on the farm may be done by equally good with respect to the hide. tallow and leather, a set off is found in that consi-loxen, than is now commonly done; and that the expence of shoeing them, is little different from that effect of inattention to the change of circumstanoxen are worked on the farm, over rough frozen hally, the forest abounded in rich berbage which fed 1. That he is less tractable than the horse. 2. ground, they suffer so much from the want of shoes, and fatted, without expence, all the cattle that could That he does not bear heat as well 3. I hat he however well fed they may be, that it is a proper be brought through the winter into the spring. It does not answer for the single plough used in our subject for calculation, whether true economy does was natural, at that time, to keep as large a stock as cornfields 4 That he is slower in his movements |not require for them. that accommodation, even on |could be preserved through the winter. For a long

sumed by the horses. Where the market is not distant, the value of the corn saved, would certainfood. The fermentation of this in the animal heat a market by which every produce of labour is con-V. I cannot but consider it as an error in our ed by the weather, and fretted by the discipline, vertible into money. In the old countries this is much more the case than in new and in new, much tions: when green food even, much less dry, with a more the case near towns, than at a distance from Every fair comparison of the expense of the two sober habit of labour, would have no such tendency them. In this, as in most other parts of our coun-The third objection also, is not a solid one. The try, a change of circumstances is taking place, for consideration, how far the labour in doing what In the fourth place, it is alledged that he is slow might be bought. could earn more in another way, er in his movements. this is true; but in a less than the amount of the purchase. Still it will al-

the mule seems to be, in point of economy, bethe horse for road service

VI A more manifest error in the husbandry of cultivated larther than it can be continued in good come so, the form of his foot, and the shortness of heart, the stock of cattle should not be in greater number than the resources of food will keep in good

The misjudged practice in question, is another of keeping horses shod. It is observable, that when less through which our country has passed. Origitime past, the forest is scarcely any where, a re-A more important calculation is, whether, in ma-|source for more than two or three months, and in The first objection is certainly founded in mis ny situations, the general saving by substituting the many places, no resource at all. A greater difficulox for the horse would not balance the expence of ty is often felt in finding summer, than winter sub-In all count ies where the ox is the ordinary hiring a carriage of the produce to market. In the sistence And yet, where no inclosed pasturage is draught animal, his docility is proverbial. His in-same scale with the hire, is to be put the value of provided to take the place of the extinct one in the tractability, where it exists, has arisen from an oc-the grass and hay consumed by the oxen; and in torest, the habit, founded in reasons which have entirely ceased, is but, too generally retained. The | same number of cattle is aimed at, as if the forest was as ready to receive and fatten them now, as formerly. The size and appearance of our neat cattle compared with those for which nature or good husbandry has provided sufficient fond, are proofs that their food is not in proportion to their number; number ought to be reduced.

is perhaps so much to be regretted, because none is so difficult to be repaired, as the injudicious and excessive destruction of timber and fire wood. It seems never to have occurred that the fund was not inexhaustible, and that a crop of trees could not be raised as quickly as one of wheat or corn.

Here again, we are presented with a proof of the continuance of the practice for which the reasons have ceased When our ancesters arrived, they found the trees of the forest the great obstacle to their settlement, and cultivation. The great effort was of course to destroy the trees. It would seem that they contracted and transmitted an antipathy to them; for the trees were not even spared around the dwellings, where their shade would have been a comfort and their beauty an ornament; and it is of late years only, that these advantages have been attended to In fact, such has been the inconsiderate and indiscriminate use of the axe, that this country is beginning to feel the calamity as much as some of the old countries of Europe; and it will soon be forced to understand the difficulty of curing it. A vast proportion of the farms on the eastern side of the Blue Ridge, and some even, on use, and are without a fund for permanent use .-And to increase the evil, the remnant of timber and fuel on many farms, inadequate as it is left in situations remote from the dwelling, and incapa ble of being divided, according to the divisions, and sub-divisions, into which all the large farms must he rapidly forced by the law of descendants, the impulses of parental affection, and other causes.

It is high time for many farmers, even in this quarter, and still more so in the country below us, to take this subject into serious consideration. Prudence will no longer delay to economize what remains of wood land; to foster the second growths where taking place in convenient spots; and to commence, when necessary, plantations of the trees recommended by their utility and quickness of growth

I wish I could more satisfactorily estimate the proportion of wood land which ought to belong to every farm, as a permanent fund of timber for building and repairing houses; for fences, where live or in such a soil. stone ones may not have been introduced; for wheel carriages, and the other apparatus needed on farms. The estimate is the more difficult, because it must be varied according to many circumstances : particularly, according to the nature of the soil, and the kind of trees at once suited to it, and to the uses to be made of them.

Estimating the crop of wood yielded by an acre at twenty cords, the period of re-production at twenty years, and the average number of cords annually consumed at a fire place, including the culinary consumption, at ten cords; every fire place on a farm will require ten acres for a permanent supply of fuel. For the other necessities of the farm, several acres more ought to be added.

An estimate in a very sensible publication, entitled "The New England Farmer," makes seven- fore directed.

teen acres necessary for a fire place. The winters there are longer, and the climate may be less favorable to the quick growth of trees. But their houses are generally closer than with us; to say nothing of a more judicious management than can be enforced on most of our farms

To this catalogue of errors in our rural econoand that where the food cannot be increased, the my, considerable as it is, many, I fear, might be added. The task of pointing them out, I gladly VII. Of all the errors in our rural economy, none | leave to others, less incapable than I have shewn myself to be by the very imperfect manner in which I have performed the one on which I ventured.

> From the American Practical Gardener, published by Fielding Lucas, jun.

## For the month of September.

Wall and Espalier Trees.

Where there are any straggling branches of these trees, train them in, and fasten them firmly in their

The early kinds, attached to the walls of the forcing house should towards the end of this month, be pruned and trained close to the trellis, that their buds may be prepared, as early as possible, for the application of the artificial beat.

Gathering Fruit.

Gather apples and pears when they are perfectly ripe on a dry day-

Prepare for Planting.

Towards the end of this month, prepare the places. in which fruit trees are to be planted, in October or November, by trenching the ground, eighteen inches deep, adding a full supply of well rotted manure.

Strawberries

There are six principle varieties of the Fragaria, or the other side, have but a scanty fund for present strawberry, cultivated in gardens 1. Fragaria Vir ginianna, common wood, or searlet strawberry. 2. Hautboy strawberry. 3. The Chili strawberry. 4 Alpina, alpine or monthly strawberry. 5 F. Ananas, or pine apple strawberry. 6. The white strawberry.

In the cultivation of strawberries, much depends on the choice of plants, for if they are taken promiscuously, without care in selecting them, you will, in a short time, have all male plants The Hauboy strawberry, is more subject to this, than any of the other kinds. The plants should therefore be taken from the most fruitful ones, and the runners especially, which shoot from, and are next to the bearing plants, should always be preferred. Endeavor therefore to make yourselves acquainted with the difference between the male and female parts of this plant, as many of the blossoms abound with stamina, or male organs, and have but few styles, or female organs; these male plants, of course ought to be pulled up from the beds, by this means you may select the best for your new plantation. The plants should never be taken from the old neglected beds, as these will almost always fail to produce much fruit.

In general, this plant loves a strong loamy ground: which should be somewhat moist, as they thrive best

When the weather is moist, make your general plantations of strawberries. The sets of young runners next the full bearing vines should be taken off in June, and planted in nurseries, for this purpose, and when transplanted into their beds for fruiting, the roots should be trimmed, and the decayed leaves and runners (if there be any) picked off.

The ground should be previously well manured and dug, then laid out into beds of three and an balf feet when finished.

Keep the old strawberry beds clean from weeds.

Collecting Ripe Fruit.

Such apples and pears, as have attained to full maturity, must be gathered in a dry day, wipe them well, and lay them carefully by.

When it is intended to plant fruit trees in October and November, the ground must be now prepared, as be

Genearl Observations.

Take every opportunity with the hoe, in dry weather, to cle in out all the weeds from the seed-beds and young trees, shrubs, &c; hand weed where necessary, continue to water regularly all the plants in pots or boxes, also the new planted flowers, when the weather is dry.

Towards the latter end of the month, begin to set in pots singly, the young tender plants, which were raised from seed this year; place them in the the shade for about three weeks, until they are newly rooted; after which place them in a warm oxposure, till the approach of frost, when they must be removed into the green-house.

Embrace every leisure moment, to dig and prepare all vacant places, in which fruit trees stocks, trees, or shrubs are to be planted in October or November.

Budding or Inoculating.

Continue to inoculate peaches, nectarines, and al-

Unite the bandages of such plants, as have been budded three or four weeks.

Propagating Trees and Shrubs, by Cuttings and Layers.

Begin in the last week of this month, to propagate goosberries, currants, honey surkles, and several other hardy trees and shrubs by cuttings; plant them in shady borders. However, this is better to be done in October; for wood imperfectly ripened, when cut off and planted in this month, seldom can bear the heat of the sun in our climate, unless it is for some time after screened therefrom.

The general propagation by layers, may be commenced towards the latter end of this month. As before directed.

Fruit Stones.

Peach, plum, cherry stones, &c. may now be planted, as before directed.

Trimming Pines and Firs.

Where pines, firs, and other resinous trees, require some of their branches cut off, this is the best time in the year, for trimming them, as they are not so apt to weep now, as in the spring, and their wounds will have time nearly to heal before winter.

Walnut trees and maples should also be trimmed at this season, for the reasons above mentioned.

General Remarks.

All beds, borders, &c. are to be kept clean from weeds, and neatly raked. The digging of vacant beds, and borders, to be attended to for planting bulbous roots, and the biennial and perennial fibrous rooted flowers. Collect all such seed, as may now be ripe.

Prepare now at all leisure hours, the different beds,

borders, and composts, for the plantations of choice tulips hyacynths, ancmonies, ranunculuses, & other flower roots, which are to be set out next month; also for the flowering shrubs, that no business may be unnecessarily hurried or slighted.

Pinks and Carnations.

The layers of pinks and carnations, as well as the pipings, which are well rooted, not before taken from their parent stock, may now be separated, and planted out in pots or borders.

The seeding pinks and carnations may now be planted out, where they are intended to remain; take each plant up with a ball of earth, and give it some water, after setting it in the ground.

Chrysanthemums.

In the beginning or middle of the month, plant cuttings or slips of the young shoots, five or six inches long, of some of the best double sorts, planting several together in large pots, to be protected through the winter; they will strike root, and form proper plants, to transplant for early flowering next summer.

Auriculas.

The auricula plants require the same attention, as heretofore directed; protected from the mid-day sun, wide, for coovenience, with alleys of fifteen inches be Imoderately watered, &c. Particular care must be tatween. The roots are to be planted in rows. Close ken to keep both the seedlings, and the other auricula the earth about each root, and water them plentifully, plants, from weeds of every kind, to keep the plants, from weeds of every kind, to keep the earth in which they are planted, in a moderate state of moisture, that the plants may grow freely, and obtain strength before winter.

Ranunculas Aconitifolius.

The double flowering variety of the econite-leaved crowfoot, or fair maid of France, is greatly esteemed for the delicate beauty of its numerons flowers It is perfectly hardy. The flowers are a pure white, and very double; the root is perennial, and composed of many strong fleshy fibres, like that of the garden ranuncuclus,

and increasing in the same manner.

This beautiful plant flowers in the latter end of May, and beginning of June, and may be propagated by taking up the roots, at any time after the leaves decay, separating the off sets, carefully preserving the crown unburt, and planting them in good garden earth, covering the crown about two inches with earth. If plan- in the morning, as thermometer rises to sixty deted in pots they will require some protection, and grees, Fahrenheit. httle water, in winter. This plant has a beautiful ap pearance, when in flower in rooms and windows, as well as in borders and beds.

Sow Seeds of Bulbous Roots.

now be sown, as directed in last month.

Hardy Annuals.

Larkspurs; persicaria, adonis, &c. may be sown, in borders, the latter end of the month, to come up early hot house, should have plenty of air, at this season, in the spring, in the places where they are to remain, which, with a moderate and steady bottom heat, will Transplant Biennial and Perennial flower Roots.

The various kinds of biennial and perennial seedlings may be planted out, the latter end of this month. from the flower nursery, into the borders, &c. where they are designed to bloom.

bloom. are not to be transplanted, bring some well rotted doing before it would acquire a sufficient degree of heat. to the borders, and dig the ground about them, which will refresh and strengthen their roots.

Planting Bulbous Roots.

Spring crocuses, snowdrops, fritillarias, the various kinds of irises, scarlets martagons, white and red lines, crown imperials, (for the method of planting these last, see directions as before given) as well as all other flower bulbs, which do not agree with being kept long out rotted hot bed dung: let the whole be duly incorporated, of the ground, should now be planted.

Common tulips, hyacynths, narcissus, and other hardy spring flowering bulbs in general, may now be planted in borders, &c. in small clusters, four or five in a place; covering the roots four or five inches deep with

light loose earth.

Tuberous Rooted flowering Plants.

Pæonias, flag irises, winter aconite, &c. may now be propagated by slipping their roots.

Hydrangia Hortensis.

The garden hydrangia, a beautiful flowering plant, may now be taken out of the old pot, its slips taken off, and all re-planted again in pots, and protected in the green-house, or other shelter, through the winter.

Double Daises. planted in small pots; water them immediately, and screen them from the sun, for a week or two, afterwards place them in a warm exposure till November.

General Observations. If the roof lights had, in the course of the summer, been taken off any the hot house departments, they should be re-placed early in this month, and all the wood and glass work put in the hest possible repair.

Give a complete and thorough cleaning, painting, and white washing, to every part of the house; and if infested with insects, furnigate it effectually. Wash t. c and the legion were invented and perfected, and ble soils, the semi elipsis.\* the pots, carry it off to a considerable distance, and replace it with fresh tap, the plants remaining in this de partment, while this is performing, should be thoroughly washed and cleaned, before they are replaced.

Taking in the Plants. The more tender kinds of house exoticks, which are arranged out of doors, should, in the middle states, be taken into the green house, about the tenth of this month, and the others successively, so that the whole collection may be in by the eighteenth or twentieth, or a few days carlier, should the weather happen to be cold, here they are to remain, closing the windows at night, giving them all the air possible in mild days, till towards the end of the month or sooner, if you have the earth, there cannot but be some definite shape and pressed at will. bot house ready fur their reception.

quarters give them a plenty of air every favorable day by sliding open the upright glasses, and also the roof lights if necessary; for the fresh bottom heat will give new action to the plants, and render an abundance of air highly requisite; observe, however, to close the lights early every evening, and to open them as early

succession Pines, Crowns, and Suckers.

may be placed in a dung hot-bed, and managed as directed for cocumbers, in January. When the nights begin The seeds of hyacynths, tulips, and other bulbs may to grow cold, cover the glasses, carefully with mats, and be very cautious not to keep your lights close, in sunny days.

Your succession pines, which are removed into the keep them in a growing and prosperous state.

Procuring fresh Tan.

Procure a quantity of fresh tan, for the purpose of making new beds, in the next month. When the tan s brought home, it will be proper to throw it up in a Also plant out double catch fly, pinks, London pride, heap to drain and ferment, for ten or twelve days, be-dracocephalums, sweet-william, thrift scarlet lychnis, fore it is put into the pits. But if it is very wet, as is Also plant out double catch fly, pinks, London pride, meap to drain and terment, for ten or tweive days, bedracocephalums, sweet-william, thrift scarlet lychnis, double rose campion, double rocket, and every other commonly the case, when thrown up out of the tan the moving power required. Even the shape of double rose campion, double rocket, and every other contains the same at the same and the same at the that the sun and air may exhale the superabundant Cut down decayed stock of perennials, and if they moisture, for if used too wet, it would be a long time

Prepare Compost. Prepare the compost proper for pines, as before described

For the most of the shrubs and herbaceous plants of the hot house, prepare equal parts of good light garden earth, and mellow surface loam. from a rich pasture course, less resistance. Between the beam and ground, with the turf; add to these a forth of very well the head, is an angle. on which depends the princiand exposed to the weather, several months, before it is used, turning the heap over every four or five weeks.

FROM THE ALBANY ARGUS.

## Treatise on Agriculture.

SECTION V.

Of Practical Agriculture and its necessary Instruments.

[Continued from No. 22-page 172.]

threshing machine and the fanning mill.

1st. of the plough.

It is among the inscrutable dispensations of Profew, and simple, and inefficient.

Of the Greek plough, we know nothing; and the most proper for this instrument. As in other cases, is more easily and better performed, with a heavy, so in this, there may be no abstract perfection; than with a light plaugh.

what is best in one description of soil, may not be so in another; yet, as in all soils, the office of the the heam, and so placed before the soc, as to cut proportions, better fitted for these purposes, and at | \* See Arbuthnot on ploughs.

When plants are placed in order in their winter the same time less susceptible of residue, than my other.

This beau ideal, this suppositious excellence, in be mechanism of a plough, has been the object of great national, as well as individual research in Great Britain, high prizes have been established for its attainment; and in France, under the ministry of Chaptal, 10,000 francs, or \$2000 were of-The crowns, and suckers, of this year's production, fered for this object, by the agricultural society of Seine. In both countries, the subject has employed many able pens; those of Lord Kainies, of Mr Young, of Mr Arberthnot, of Lord Somerville, and of Messieurs Duhamel, Chateauvieux, Bose, Guillaume, &c It is not for us, therefore, to do more than assemble and present such rules for the construction of this instrument, as have most attained the authority of maxims.

> The beamor that part of the plough which carries the coulter, and furnishes the point of draft, should be as near that of resistance as possible, beploughs, it was generally strait, but a small curve is now preferred; because it has the effect of strengthening the coulter, by shortening it.

2d. The head of the plough, is the plain on which it moves. This should be concave, because that form offers fewer points of friction, and, of pal office of the plough; the making at will, a deep or shallow furrow If you wish a deep furrow diminish the angle, and vice versa; but this angle should, in no case, exceed from 18 to 24 degrees.

The resistance made to the plough being produced less by the weight of the earth, than by the cohesion of its parts, it is evident, that the head should be shod with iron, and rendered as smooth as possible. This remark applies equally to the soc

and to the mould board.

3d. The soc in its widest part, should be larger than the head. It has different shapes in different We begin this part of our subject with a few re-|countries. In some it is given to it that of an isos-Some of the choisest of these modest little flowers, marks on the instruments necessary to agriculture, celes triangle; in others, that of the head of a lance; may be taken, up, with balls of earth to their roots, which may be comprised under the well known in Biscay, a creseant; and in Poland, of a two prongnames of the plough, the harow, the roller, the ed fork. But whatever be its shape, it should be well pointed and polished-enter the earth with facility, and cut it easily.

4th. To the mould board, some workmen give

vidence, that the arts most useful to man, have been the shape of a prismatic wedge: others make the of latter discovery-of slower growth, and of less upper part convex, and the lower concave: while marked improvement, than those that aimed only many make it entirely flat. In stiff soils, the semi at his destruction. At a time, when the phalanx cycloid is the form to be preferred, and in loose fria-The iron mould inside entirely with a very strong solution of corro- when the instruments they employed were various hoards have great advantages over the wooden, parand powerful, those of agriculture, continued to be ticularly when they, the shear and the soc, form one piece, as in the ploughs of Mr Cook.

It is a general opinion, that a heavy plough is general disuse of that described by Virgil and Pli-impre disadvantageous than a light one, because the not all, of the lurking insects, which have taken shelter in different parts of the house.

not all, of the lurking insects, which have taken shelter in different parts of the house.

not all, of the lurking insects, which have taken shelter in different parts of the house. the boasted lights of modern knowledge, scientific agricultural society in London, establish a contrary men are not agreed upon the form and proportion, doctrine, and show, that in light grounds, the labor

plough is the same, viz. to cleave and turn over the the sod. It is susceptible of being raised or de-

6th. The handles of the plough ought to be made of some kind of heavy wood, that they may operate as a counter weigh to the head, the soc and the mould-board.

To these remarks we subjoin two sets of experiments, made with the most approved French and English ploughs—that of Guillaume, and Small's Fotheram plough improved, which furnish a means of comparison between the best plough of Europe and those of this country.

The resistance (stated in these tables) was measured and ascertained by a dynonometer, a machine indispensible to those who would make correct observations on the relative advantages of different ploughs

THE	FRENCH PLOT	JGH.	TH	E ENGLISH P	LOUGH.
Resi	stance in pou	nds.	I	nounds.	
	xperiment	200	1st exp	criment	360
2d	do.	240	2d	do.	381
3d	do.	200	3 d	do.	450
4th	do.	220	4th	do.	460
5th	do.	220	5th	do.	400
			6th	do.	400
Div	vided by 5)	1080	7th	do	42
	_		8th	do.	<b>3</b> 86
Αv	erage,	216	9th	do.	440

Divided by 9) 3726

Average, 414

the triangular and the square, the single and the double. But of whatever form, its uses are the same; to smooth the field after ploughing, to break and pulverize the clods and to cover the seed.—These uses, sufficiently indicate the propriety of employing two, in succession; one of beavy frame, with few and long teeth, like the "cotch brake; the other, of lighter construction, with more and shorter teeth. Our own experience leads us to believe, that the common harrow covers the seed too much, because small seeds will not vegetate at a depth greater than three inches.

The roller, is a cylinder of heavy wood, turning on gudgeons, or on an axle, and placed in a frame, to which is attached a shaft; it is of different dimensions, but need not exceed that which may be drawn by one, or at most by two horses or oxen. This instrument is indispensable in good husbandry, yet is rarely used in ours. Its offices are three fold—to render loose soils more compact; to break the clod on stiff ones, and on both, to compress the earth (after seeding) so that it be every where brought in contact with the grain. It is also usefully employed in reinstati g the roots of meadow grasses, loosened and raised by the alternate freezing and thawing of the ground, and, wi ha similar view, may be passed over winter crops early in the

Its clod breaking and pulverizing property is much increased, by surrounding the roller with narrow bands of iron. two inches broad, three inches thick and six inches asunder; or by studding it with iron points, resem ling harrow teeth, and projecting three or four inches

IV. The threshing machine is of English invention, and may be well enough adapted to the taste and circumstances of rich amateurs, but not at all to those of farmers in general. Our objections to it are three—the first, cost, which is great, the quantum of moving power employed, which is equal to that of six horses, and the number of hands required to attend it, which is not less than four. We have seen, in France, a machine for the same pur-

pose, but of much simpler structure—called the "Rolean de de piquer," which is only a flatest cylinder, yet simple and cheap as this was, it could not maintain itself against the more ancient instruments—the flail and the horse. Still it is to be hoped, that new experiments may succeed better and abridge the manual labor usually given to this branch of husbandry, and, that the mechanical genius of our own country (which is not inferior to that of any other) may be the first to combine power and cheapness in this machine.

This hope is probably suggested, by the description of a new invented threshing machine, now before me, and which I may be permitted to transcribe com the letter of the inventor. "The ma come I have built, is three feet wide. One horse will thresh, with much ease, as much wheat as can e old on it by one man, (the straw to be taken away by another,) say, from fifty to one hundred bushels in a day, and the saving of grain will pay for the labor; for, I think, that with good attendance, not a particle of grain can escape with the straw. The expense of the machine will be from jifty to seventy dollars, exclusive of the mooving power, which is a wheel, about ten feet diameter. on an upright shaft, to which a lever is fixed to fitch the horse. Into this main whicel, a small one should be made to work, about two feet diameter, on a shaft carrying a druin, four feet wide. With this simple gearing, and drawn by a horse that walks well, the machine will give about eighteen hundred strokes in a minute, and if fully attended, will without bard labor for the borse, thresh a bush el every three or four minutes. It stands in my barn, and may be seen and examined by any one ',

V. The Fanning Milt: Other things being equal, the cleanest wheat, is most easily preserved, and, on manufacture gives the best flour and in the largest quantity. These considerations offer inducement enough for the employment of this machine, which, however, besides doing its business well, saves a great deal of time. It is too well known to require description.

\*Mr L. M'Keen, Poughkeepsie.

# The true theory of making and hanging Gutes, exemplified

All those who have travelled through Maryland and Virginia, must have been disgusted with the great number of heavy, ill constructed and unwieldy Gates, which arrest the traveller and obstruct his progress at every half mile.

The more numerous divisions of real estates, and the increasing searcity of timber, for fencing, must add to the present number of gates, which now probably average one for every fifty acres of arable tand. The reader therefore, who might otherwise regard it as an odd subject for remark, will at once see how far the true principles and economy of gate making is worthy of e lucidation in a journal like this—the main object of which is to suggest the best means of performing every agricultural operation, and to point out whatever may have a tendency to promote the saving of time, labour and materials.

We find the subject treated very fully and clearly, in an ESSAY ON THE CONSTRUCTION, HANGING AND FASTENING OF GATES, exemplified in six quarto Plates—by Thomas Parke —printed in London, in 1804—from which we here extract what appears most particularly applicable to the common swing gates used in our country.

It would be impossible to construct any thing with more entire disregard to the science of the thing, han the gates which we usually meet with—without any rational proportion in the weight of its several parts, and without any rule whatever for hanging it. We gener-

ally find them dragging on the ground two or three eet before they strike the post, or falling against it with such violence as to shatter every joint in a few months—the farmer not dreaming that all its movements may he adjusted with perfect accuracy and minuteness by the regulation of the hooks and thimbles, & hat the difference of a quarter of an inch in the length of the one or the other, makes an immense difference in the fall of the gate—and of course in its efficacy and durability, and consequently in the security of his crops, and the saving of his own time and labour. In other words, his money and his reputation as a farmer.

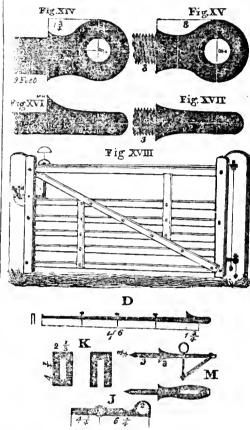


FIG. XIV—Is the upper thimble adapted for a gate opening one way; with an iron strap which is to fasten with screws along the top of the gate, made to extend the whole length of the gate, and hinish with a round screw nut let into the fore part of the head of the gate as at FIG. XVIII; the thimble heing bent 1-4 of an inch bearing towards the hanging-post.

FIG XV-Is the lower thimble of a gate proportioned to the upper thimble, FIG XIV, as 1 3-4 inch is to 3 inches, in regard to the distance between their centres and shoulders respectively.-These thimbles are adapted for a gate whose hinges are 40 inches assunder; and as 40 is to 1 1 4, the difference in this instance, so should be any other distance from hinge to hinge to the proportionate difference or extra length of the lower thimble; and the greater the extra length might be made, over and above such proportion, the greater must become the velocity of the gate's fall, or tendency towards the line of rest, until its course is arrested by the fastening-post 1-16th part of the circle, or 22 deg. 30 min. short of the line of rest. The lower thimte is let into the gate by a screw of equal substance throughout its length, or not tapered, in order that the adjustment of the thimbles, as to the velocity of the gate's fall, may be regulated to so

thimble may either be let into the heel of the gate, is confined laterally by two upright braces; which or lengthened out by a washer, as occasion shall re- would keep up the rail, provided the head were not quire. The position of the thimbles, in respect to pushed forward; and that is prevented by an iron each other, must be favoured also by the lower strap of equal length to the gate being attached to, thimble, which being placed 1-4 of an inch out of or forming a part of the upper thimble in the first the middle of the heel of the gate, in the contrary instance, where it holds the heel of the gate by the direction of the upper thimble, the whole difference, shoulder of the thimble: it is afterwards screwed to as to the distances of the two thimbles from the the rail at proper distances; and, lastly, secures hanging-post, will be 1-2 an inch ; and their verti-the whole work together by a screw nut, rounded cal plane, which is the same as that of the lines of and let into the front of the gate's head.\* By this rest and equilibrium, will form an angle with the arrangement, the gate is in fact suspended by the line of fastening of 22 deg. 30 min. or 1-10th part iron strap and rail, instead of the heel, which asof a circle : this adjustment, in effect, adds 1-12th sists greatly in preventing any strain upon the morof an inch to the extra length of the lower thimble, tises by the gate's own weight or otherwise so that, by a plumb-line, it will be found (when the the actual extra length of the lower thimble, or borizontal distance of the two centres from each otiner, will be t 1 4+12=11-3 inch.

FIG XVI-Represents the side view of FIG. XIV FIG. XVII-Gives the side view of FIG XV.

FIG. XVIII-Is a complete gate for opening one way and constructed in such a manner, that it shall not sink at the head, as ordinary gates are apt to do. The bars are let into the middle parts of the head and heel, and the braces are tapered for finishing pattern, let the above column of lengths be altered upon a level surface with the heel, head, and rail; as is evident in the following directions for the and that of the sizes to which the narts are to be sawing out the timber, which should be of kind oak, tapered, may remain as they are: suppose the gate es, which are marked with an asterisk are precisenot too tough, and entirely free from sap.

The waste in planing and finishing a gate may be allowed for or not, as the gate is desired to be a little more or less strong: but when the timber is much as is wanting to the braces, and the gate will by enough calculated, but as 40: 1 1-4: good, it is reduced so little by being planed and be in a good form, the rails and bars being of course 41: 1 and a further fraction, 42 to a still greatfinished into a gate, that no allowance need be made for the waste; or, at all events, if the sawy r attends to the dimensions recommended, the gate will be quite strong enough for its size.

Solid
d. contents.
cubic in.
= 832
. = 825
1.2= 972
3.4= 1417
= 427 1004 Directions for saving the Timber for the Gate.

gate, the whole of the eight parts at the head presenting to the eye 2 1-2 inches; and seven nut of the eight parts at the heel, that is, all excepting the this pattern of a gate, with regard to the contrivance of heel itself, present 3 1-2 inches Its solid con- the braces and iron strap for upholding the rail; and inches, or nearly 2 1 2 cubic feet.

The diagonal brace is fitted into the heel by a near Wolverhampton. strong butment, even with the lowest bar and its

great a nicety as half a turn of the screw; and the smaller end meets the upper angle at the head, and cannot imagine a gate of more durable construcgate is bung upright, as it always ought to be) that tion, and it seems particularly well calculated for road-gates. The fastening is remarkably easy for a horseman to open, and as difficult, if not impossible, to be opened by cattle: the upright wire of the latch is furnished with a guard, and the mortise of the head of the gate through which the latch passes is finished with sheet iron escutcheons, like those at K, the fastening being completed with the catch M, having a button in the place of the ring.

If it were wished to make a larger gate of this accordingly; but the column of greatest thickness is to be 9 ! 2 or 10 feet long, instead of 9 feet, then ly proportioned to the horizontal distance of the add about half of what the length of the gate is in-lines falling from the books, for as 40 : 1 1 4 :: creased to the lengths of the head and beel, with as 32: 1, &c. and the intermediate numbers are nearcut out to the new length.

white, otherwise they will be frequently broken in dark nights by horses and carriages being run against

It appears by calculation, that the contents of solid timber in the gate, FIG. XVIII, and the quantity 6 7-3 inches, in its semicircular course from the of sawing (which is half the superficies of its parts line of rest to the line of equilibrium, then as the measured separately) are exactly

Solid Contents. Sawing. Feet In. 31 11 1-2 **5 1-**3

Allowance must be made for waste of timber by every cut of the saw, which is equal to the quantity of saw dust; and the measure of sawers work in a gate depends a great deal upon the size of the timber, and how far the slabs and other pieces which are unlit for gates may be convertible to different purposes.†

est to the thimble, it is made stronger for a few inches; and close to the shoulder of the thimble, it should be about an half inch square: the edges are chamfered off, and the whole appears to be gradually tapered from the heel to the head of the gate, widening a little which will be found to form a well-proportioned round the hole which is left for the upright part of the

> In the preceding edition of this pamphlet, I acknow ledged myself indebted to an ingenious mechanic for servedly approved of, it may be proper for me to add, that I received it from Mr John Baddely, of Albrighton,

When the hinges of gates are more or less than 40 inches asunder, the new position of the books may be found by the following TABLE.

may c	oe toan	u by i	ne lonos	ving 1	ונוערי	Ca -	
Distance of the two hinges or pi-	Horizontal distance of two perpendicular lines, one falling from the centre of each of the hooks.	Distance of the two hinges or pi- vots of a gate's suspension.	Horizontal distance of two perpendicular lines, one falling from the centre of each of the hooks.	Distance of the two hinges or pi- vots of a gate's suspension.	Horizontal distance of two perpendicular lines, one falling from the eenter of each of the hooks.	Distance of the two hinges or pi- vots of a gate's suspension.	Horizontal distance of two perpendicular lines, one falling from the center of each of the looks.
11 12 18	1-3	24* 25 26	3-4		1 1-6	51 52 53	1 7-12
1	5-12	24* 25 26 27 28 29 30 31 32 33 34 35 36 37	5.6 11-12	40* 41 42 43 44 45 46 47 48* 49 50	1 1-4	51 52 53 54 55 56* 57 58 59 60 61 62 63 64	1 2-3
16* 17 18	1-2	30 } 31 } 32 }	11-12	$\begin{array}{c} 43 \\ 44 \\ 45 \end{array}$	1 1-3	57 58 59	1 3-4
14 15 16* 17 18 19 20 21 22 23	7-12	38 }	1	46 47	1 5-I2	61	156
22 }	2 3	36 37	11-12	49 50	1 1-2	63 64	1 11-2 2

Those numbers denoting the distance of the hinger sum, but not amounting to 1-1-2 inch difference, All road gates and gate-posts should be painted till the distance of the hinges becomes 43 inches: and the same will apply to other parts of the table.

The accuracy of these calculations may be tried in various ways, suppose a gate to be 110 inches long, and that it is intended to rise at the head length of the gate is to the distance between the two hinges, so will be 6 7 8 inches to double the horizontal distance of two perpendicutar lines, one fal ing from each of the hooks.

Take any other distance of the hinges from each other, and the required extra length of the lower thimble may be found by placing the numbers 1 10 and 6 7-8 as the first and second terms of a rule of three proportion, and the new distance of the hinges must be the third term: the answer divided by two will be the sought for horizontal distance of the two perpendicular lines falling from the hooks: and \* The iron strap is about an inch by a quarter of an inch in substance, for one half of its length, when it is as the extra length of the lower thimble should altapered towards the head of the gate. At the end near- ways be the same as the horizontal distance of the perpendicular lines falling from the hooks, [adding the loss in hauging the gate] the answer for the one is the measure for the other.

the precise amount as to omit the fractions; but to measure the bulk and superficies of the parts of this gate, tapered as they are, is rather tedious and troublesome: I trust and believe, however, that I have drawn correct conclusions; and since many gentlemen are apt to neglect their gates as well as other repairs and imtents of timber is 4224 cubic inches=2 feet 5 1-3 since this plan of constructing a gat is become so de-provements, for want of properly understanding the the attempt to remove such obstacles, as to this subject, I shall not be thought to have misapplied either my own † In making accurate calculations, it is as well to give time, or trespassed unnecessarily upon that of my read-

# Agricultural Chemistry.

The great Linnæus, has almost given animal life to vegetables, by his wonderful system of classification, and the eccentric Darwin, would fain give them passions like human nature; but it has been reserved for modern Chemistry to discover, that vegetables possess a most refined taste, a wonderful discrimination in the selection and the most active chemical powers in the preparation of their food. It is in vain to search for any single article as the "food of plants;" their tastes are as various as the taste of man; they invariably seek for those things which they like best, and if they cannot find them, they will take what they can get. Indian Corn in the vegetable kingdom, is like swine in the animal; it feeds indiscriminately and voraciously on all the food it can procure, and its growth and product is in proportion; while the more delicate mint is The horse is now said to have a full mouth of permasatisfied with water alone, from which it extracts its small portion of food. The seed of a vegetable may be tushes appear: though sometimes, but rarely, they apconsidered the magazine or granary in which is contained the germ of the future plant, and a requisite supply of food to support it. In establishing itself in the earth, the germ in many comparatively large seeds, is just above the gums, and filled with flesh on the inside so small, as to a scape the power of the naked eye. What I five, this fleshy appearance is lost, but these teeth then is the vision of man, when compared with that power which creates in an invisible seed, an emoryon they sellion lose their shell like appearance until five plant, perfect in all its parts, perhaps an hun red times and a half when they have a cavity of a dark colour there are thousands upon thousands of acres of uncul-smaller than the seed itself? The gram preserves and on their upper surface, like the other teeth. At six tivated land in all directions, more especially south and definds the germ from injury until placed in its proper years, the dirk-coloured cavity is much diminished, apsphere of action. The earth then furnishes food to it, by its power of absorption, which it naturally exacts as by is power of absorption, which is some as it comes in contact with indistinct. When it specials At seven, the corner teeth have become a cd, would produce as many of any one of the ab has taken in a sufficient quantity of water, the germ little longer, and the mark smaller. At eight, the commences its operations by decomposing a part and appropriating to itself the ox, gen, it gains strength and bursts its cell-it now finds itself in presence of earth ten, the two front teeth have lost their marks, the two and air.\* It puts forth its fibrous roots in quest of more next have but little left, but in the corner teeth they substantial food among the mineral and saline solutions are readily seen; but these gradually wear out, and in the earth, and separates, with unerring fidelity, during the twelfth year are totally erased. The tushes, those which are required for the formation of the plant, in the mean time its head rises towards the heavens, and bursts the surface of the earth: the voluntary expansion of its leaves, seems to offer praise to its creator; the sun stamps upon it his brilliant colours, and gives the flower its beauty; by its heat, the plant prepares its nils, gums and balsams; and in return, gives to the light its oxygen, (which, for ought we know, may be the support of the sun) The winds agitate the plant, and often threaten to carry away the beautiful super-structure; while its motions indicate to the root below, that it is in danger. The elder roots grasp with when very old they become white. The teeth of firmer strength the earth, and send forth an increased horses, as they advance in years, become longer and number of fibres, which collect materials and increase more oblique in their position, they acquire also a yelthe growth of the plant. These operations go on until the fruit is produced, when the plant resigns itself to indolence, and delivers to the hand of man the result of its labours. Some are permitted to resume their action after delivering to the earth their fruit and leaves; but the greater number sink to the earth and furnish nothing, however, can make them familiar with the substance for the growth of some future plants, this is the unvaried round of matter, it lives, and dies to fill some other life.

• It is usual to confine the presence of the air to the earth, but tillage extends it beneath the surface from I to 12 inches, hence the difference in the same earth, cultivated and uncultivated; the presence of the atmosphere being requisite for vegetation as soon as the germ bursts the seed.

## Extracts from a Compendious Dictionary of the Veterinary Art.

(Continued from No. 22-p. 174.)

EGYPTIACUM. The following is the method of making this linament, so much used by farriers as a detergent in foul ulcers :- Take five ounces of powdered verdigris-one pound of honey, and seven ounces of vinegar :- boil all together, until it is of a deep red colour markably sunk and hollow, it is said that a small inciand as thick as honey.

AGE. A horse's age may be known by the front teeth teen. These latter marks, however, are not to be de-ble.

pended upon like the former; but if, at the same time, the horse's countenance be considered, with some other marks we shall point out, an experienced person will be seldom led astray by them. When a colt is foaled, he has no teeth in the front of his mouth, but in a few days two above and two below make their appearance, and soon after them four others: after this, it is gene rally three or four months before the corner teeth, as they are termed, appear. These twelve teeth in the front of the mouth, are small and white, and continue without alteration until the colt is about two years and a half old, when he begins to shed his teeth. The two front teeth, above and below, being the first that made their appearance, are the first that fail out; the new or permanent teeth, distinguished also by the name of our humble way, a sense of the great advantages rehorse's teeth, are considerably stronger and larger than sulting to the country from the establishment of these the foal or colt's teeth Between the third and fourth patriotic associations. years, the two teeth next them, above and below, fall out, and are replaced in like manner: and between the fourth and lifth, the next or corner teeth are changed. pear before the fourth year. The four front teeth arrive at their full size in two or three weeks, but the corner teeth do not grow so quickly, being at first but pearing something like the eye of a bean, that has advanced in length; still the mark or cavity is very conmark is lost. After this period, you judge of the age by the marks or cavities in the upper teeth. About like the teeth, are gradually changing their form: at first they are small, sharp, and shell-like, having a remarkable concavity on their inner surface, but gradually become larger and longer: the concavities on their nsides also lessen: about eight they are nearly lost.— At about twelve, sometimes earlier, the inside of the tush begins to approach toward a round form and after that gradually becomes quite round, blunt at the top, and of a yellow colour. About the age of fourteen or fifteen, white hairs often appear above the eyes, and gray horses become lighter in colour, and lowish colour. The figures I have annexed to this article may be found a useful remembrancer by those, who wish to learn the method of discovering the horse's age by the mouth; that is, it may enable them to recol lect the progressive changes which the teeth undergo; subject, but an attentive and frequent examination of the horse's mouth. Horse-dealers are said to practise numerous artifices in order to deceive the inexperienced with respect to a horse's age. One of them consists in pulling out the corner teeth of a four-year old to make him appear five; for when the corner teeth are thus removed before their time, they are soon succeeded by horse's teeth: this artifice is often practised.-Another trick is termed bishopping; that is, making artificial marks in the corner to the when the natural marks are worn out. The first artifice may be detected by the want of tushes; the second by the want of resemblance between the natural and artificial mark, the state of the tushes, and general appearance of the teeth; in horses past twelve, the marks in the upper teeth also may assist in its detection. When a horse necomes gray over the eyes through age, some fine powder of a suitable colour may be readily procured to conceal it. When the pits over the eyes are reion is made in the skin, and the smallest tobacco-pipe stem or quill, introduced, and the membrane underof the lower jaw until he is in his eighth year, after that heath inflated, so that the hollow parts are filled up some judgment may be formed of his age by the front with air; but this. I believe, is seldom if ever prateeth of the upper jaw until he is about twelve or thir tised; and as to filing down the teeth, it is impractica-(To be continued. )

## THE FARMER.

BALTIMORE, FRIDAY, SEPTEMBER 3, 1819.

EARLY CORN AND TALAVERA WHEAT.

We have been kindly promised a small quantity of early Canada Corn, which it is said will ripen six weeks sooner than any other-also some Ta avera Wheat, in the straw. In the disposal, (which is always gratuitous) of these and other rare seeds or grain, we shall give the preference to applications from Agricultural Societies, not only because it will be likely to ensure the widest, most equitable and judicious distribution, but because we are desirous to evince, in

We have had several applications for Guinea Grass Seed, which we should be very happy to gratify, but we have not been able to procure any. The plants sent us from a friend in the District of Columbia, are grownent teeth. During the fourth year, the tusks or ing finely; but we apprehend it will not succeed in a climate so far North as this. The frost will probably overtake it. We hope ample experiments will be made. WORTHY OF NOTICE.

Irish and sweet Potatues, have been selling in this market for some weeks past, and do still, at the rate of two dol ars per bushel-Tomatas, at 10 cents per dozen continue for some time much less than the others, and -Peaches, at S71 to 50 cents per peck-Cabbages, large, 10 to 121 cents per head. At the same time, west, within a few miles of the town, which land might be bought for from \$10 to 20 per acre, and each acre if well prepared, and judiciously planted and cultivated, would produce as many of any one of the above ar-

## TO THE EDITOR.

dated -- Albright, N C. August 18, 1819.

We are uncommonly dry in this section; most of our corn fields are irretrievably lost--some chance fields are midding. Wheat crops were never better nor saf-er housed. Garden vegetables that receive their support from the earth at this season, are lost We have just sown our turnips, and fear they will fail. Fruit in abundance and very fine. The streams here were never known to be lower by the oldest person living amongst us-Thermometer higher than usual at this season. Money uncommonly scarce, and produce low -a monstrous disease in the neighborhood of Banks, without an anticipated remedy-and it is greatly feared, that the disease has progressed so far into the vaults of the banks, that their death will be certain. Agriculture an agreeable topic generally.

I hope the above evils will lead to great objects-the mprovement of the soil. I hope to be able, in a few years, to convince some of my old friends, that it would be better for them, to abandon a profession, (as I have done) and live by the bountiful products of a farm.

Prices of country produce have not materially altered since our last, except WHEAT, which sold on Wed. nesday for SI 25. Of North Carolina Staples we have Sterrett—Tar, scarce, S2—Turpentine suft, S2—Spirits Turpentine, 45 cents per gallon—Varnish, 30 cents—Shad, No. 1, trimmed S7—do untrimmed S6— Cotton, upland, 16 to 17 cents-Beans and Peas, 80 to 100 cents—Wheat white, \$1,25—do. red, \$1,20—Bacon, the hog round, 12 to 13 cents—Lard in kegs, 12½ cents per pound.

#### TO CORRESPONDENTS.

The writer of " . Igricultural Ch mistry," though unknown, will accept our thanks, and we do hope will give us a regular series of letters on that subject.

" CATO" surprises us, after the repeated assurances that this paper will not intermeddle in party politics. Whatever may be our private inclinations-it is not here that they can or will be manifested.

The Address of Col. ATHANASIUS FENWICK to the Agricultural Society of St Mary's County, communiated by said society for publication in the . Imerican Furmer, will receive early and respectful attention, as r highly deserves. We should have inserted it in this umber, but that we wished to conclude the publicain of the learned, philosophical, and, as it relates to ie latter part of it, we may say, practical Address of Mr. Madison.

## PRICES CULRENT

## AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

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Young Hyson,	1	25 a 15	
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WOOL, Merino, clean,	1	80	١
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crossed, clean, unwashed, -	1	65 35	1
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skinner's,	1	33)	ı

## POETRY.

Hest River, August 25, 1819.

DEAR SIR The enclosed song, written by a gentleman distinguished for his practical knowledge of Agriculture, as well as talent for poetry, seems particularly suitable for insertion in your valuable paper, for which purpose it is transmitted by

A SUBSCRIBER.

To John S. Skinnen, Esq.

## THE LEAF OF TOBACCO.

Tune - Sprig of Shelalah, &c.

ET the Irishmen boast, they're the Lds for the la-That fighting and loving their own native trade is— While the Shamrock so green shades the bosoms so hold:

But the Shamrock, when gather'd, will quickly decay, 'Tis honor'd one moment, the next thrown away; Now the plant on Patuxent, we rear as our boast, When the most it is faded, we honour it most—' is the leaf of Tobacco, as yellow as gold!

We have hear'd, tho' to us it appears rather silly,
The knights of Navarre, for the sake of a hilly,
Would rush on to death, or to vict'ry of old:
No doubt, but they thought, that this beautiful flower.

O'er the hearts of th. damsels had wonderful power; But the Knights of Paturent need never to sigh, If they can but hold up to a fair one's bright eye The leaf of Tobacco, as yellow as gold.

The Thistle of Scotland has oft taught her foemen, That it can be well roughly handled by no men, Without their soon wishing they ne'er had ta'en hold

Thus may all, who would wish our toy'd plant to decry. Whether meaning to smoke it, to eat it or buy, Soon find it too high for their fingers to bear, And that they'll have the profit alone, who shall rear

The leaf of Tobacco, as yellow as gold.

## THE COMMON LOT.

ONCE in the flight of ages past,
There liv'd a man: and Who was he?
Mortal! howe'er thy lot be cast,
That man resembled thee.

Unknown the region of his birth,

The land in which he died unknown;
His name hath perish'd from the earth,
This truth survives alone:

That joy and grief and hope and fear, Alternate triumph'd in his breast; His blist and woe—a smile a tear— Oblivion hides the rest.

The pounding pulse, the languid limb,
The changing spirits rise and fall:
We know that these were felt by him,
For those are felt by all.

He suffer'd—but his pangs are o'er; Enjoy'd—but his delights are fled; Had friends—his friends are now no more; And foes—his foes are dead.

He lov'd—but whom he lov'd the grave
Hath lost in its unconscious womb:
O she was fair—but nought could save
Her beauty from the tomb.

The rolling seasons, day and night,
Sun, moon and stars, the earth and main,
Ere while his portion, life and light,
To him exist in vain.

He saw, whatever thou hast seen, Encounter'd all that troubles thee: He was—whatever thou hast been; He is—what thuu shalt be.

The clouds and sunbeams o'er his eye,
That once their shades of glory threw,
Have left m yonder silent sky,
No vestige where they flew.
The annals of the human race,

Their ruins, since the world began, Of him afford no other trace
Than this—THERE LIV'D A MAN!

WHOOPING COUGH.

As Whooping Cough prevails among children, and has in several instances proved mortal, it is important to be generally known, that, after the disease is fully ascertained, inoculation for Cow Pox will certainly arrest it. The attention of parents is invited particularly to the consideration of this fact, because, in addition to the danger from Whooping Cough, especially in young children, it has been accompanied, in some of the cases which have already been fatal, with dis-(dies, tressing bowel complaints, which are usually prevalent at this season of the year. It is an absurd opinion, that Whooping Cough must be left to have its course, but in consequence of this opinion it may happen, that a physician will not be consulted until it is too late to have recourse to inoculation with any prospect of success. If proof be necessary to convince the incredulous, the reported cases of some of the best physicians in the country afford abundant evidence of the utility of the practice. They advise to inoculate as early as the second or third week from the commencement of the Cough, and in extreme cases, earlier. Hamp. Ga≈.

AERIAL COMBAT.

A few days ago, says a late London paper, a mason and a laborer, both men of prowess, quarrelied on the scaffolding of a spire now erecting on the tower of the new church. A pugilistic encounter took place, and the two fearless combatauts fought near the very summit of the unfinished building, where it was not quite a yard in diameter. The scaffolding and railing which encircled it, include a space of about 80 inches in diameter; and here the champions buffetted each other lustily at the height of 176 feet above the surface of the ground. Some knuck down blows were given and received, but fortunately neither of the warriors were thrown out of the ring, or, as the technical phrase is, over the ropes. - It is indeed to be leared, that if they had been precipitated to mother earth, she would not have received them so kindly as she did her favorite son Antaes. We do not think a quarrel of this nature was ever before decided by fisticuffs, in a similar situation, unless, perhaps, at the memorable dispute betwixt the brick-layers, masons, &c. who were engaged in the building of Babel. It is said, that the victor means to challenge Crib, Carter, and every other British bruiser who may take up his gauntlet, to fight him on the top of the monument of London, where he will give him such a cross buttock, as will send him headlong to the street. The only men in modern times, who have equaled these genuine successors of Hercules, Eryx, and Entellus, were Massena and Suwarrow, who lought in the Swiss mountains, three fourths of a unite above the clouds, and saw the lightning break, and heard the thunder roll, full many a fathom below the scene of action.

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EBEN. FRENCH, PRINTER.

## JOB PRINTING

EXECUTED WITH NEATNESS AND ACCURACY.

# AMERICAN FARMER.

## RURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . Ving.

Vol. L

## BALTIMORE, FRIDAY, SEPTEMBER 10, 1819.

Num. 24.

## AGRICULTURE.

Address of Athanasius Fenwick, Esq. to the AGRICULTURAL SOCIETY OF ST. MARY'S County, Md. communicated by E. J. Mil-LARD, secretary of said society, for insertion in the American Farmer.

WE have reason to congratulate each other on the exc lleut dispositions which have produced this assemblage. It is evident, from its respectability, which is diffusing itself in neighbouring districts. the moralist and patriot, than that which arises in the mind of him who perceives that now that it has pleased Providence to give place to the civilized world, that every virtuous and intelligent man, grateful for the blessing, seems at length heartily the arts and sciences, thereby to better the habits of men, and increase the productions of labor.

Agriculture, the most uncient of all the sciences. extent of our acquirements in this branch of knowledge depends nearly all our income, all our comforts, all our means of doing good; of course our independence and respectability. The strength, power and happiness of the nation to which we belong, are also derived from this vast source of wealth. Every inducement therefore, which can operate upon us in our individual capacity, or as heads of families, or as members of society, invite us to increase possesses a great share of knowledge, is insensibly impelled to active exertion, to constant application to business, to great industry, and thereby his wealth, utility and respectability cannot fail to increase.-What is it that engenders slothful habits of lounging, that cause so many tedious hours to be spent in idle chat, in listless torpor and insipid amusements; that causes those nurseries of laziness, extravagance, gaming, and intemperance, to be the most frequent resort of our people? Why, habits produced by ignorance: The want of knowing how to produce ten fold more comforts by staying at home and how to carry on the business and improvement of their farms, with a degree of profit, credit and respectability which would even satisfy a man of naturally bad propensities, and win him by his interest from the scenes of coarse, degrading and expensive indulgence.

If such then, is the influence of agricultural knowledge upon ourselves, and upon the mass of

and diffuse the little stock we possess? Then disregarding the trilling inconvenience and fatigue, we may incur, as members of an agricultural society, let us unite our efforts in the admirable task, of endeavoring to produce industry, plenty, virtue and health, within the sphere of our acquaintance, and to banish as far as we can, ignorance and indolence, the fruitful mothers of vice and poverty.

Can any reward in this world, be greater for such labors, than the certain consequence of an increase of sound knowledge in the husiness of our th tour community feels deeply the spirit of im-lives; that is, in the first place, bettering our provement; the laudable desire of amending our own healt and fortunes, and at the same time imcondition, by availing ourselves of the knowledge proving the condition of every human being, and not only them, but of every domestic animal around us? and states. No reflection can be more delightful to There is something so cheering and animating in the prospect of doing so much good, that I think it cannot fail to rouse us, to lay the foundation of an establishment, for the regular, constant and durable acquisition of agricultural knowledge; and the way to make every member feel an interest in disposed to devote all his talents and his labours to the society, is, by making him feel his utility in conthe objects most worthy of them, the promotion of sequence of his services. Let a task therefore, of some useful kind, be imposed on each member, and to do this profitably, the concerns of the society, must embrace all our domestic and local concerns. and the most necessary to supply the wants of man. It is useful to know the condition of every farm; its yet so little understood, because the most diffi- dimensions, its divisions, its arable and waste land, cult of all others, is the branch which it has fallen its produce in grain, in tobacco, in grass; its sources to our lot in life to pursue, practically. On the of manure of all kinds, the number and kind of stock, team carts, ploughs and laborers. Let each member, furnish quarterly, statements of his own and adjoining farms, and if shame is felt in exposing our bad management, it is better to endure that pain, than the secret consequences of continuing in a miserable condition. It is certainly time that remedies should be applied to our modes of management, and all salutary remedies gives a little pain. The society will be found useful, also, in discoverand diffuse our share of that kind of knowledge ing and encouraging every useful man, whether he which is the chief business of our life. Knowledge, is a mechanic or a cultivator of land. This may says the great Lord Bacon, is power, and whoever benefit the members of society as well as the community. Committees to visit and report the condition and modes adopted by the best farmers among us, who do not belong to the society, will be another means of employing our members and producing a general spirit of emulation. The intercourse of the society, may also facilitate the disposition of males and females of the best breeds of cattle, horses and hogs, if the names of the owners are regularly reported. These are some of the personal advantages which may be derived from an association of this kind, as well as the general improvement of our cultivation.

Let us examine, what it is that gentlemen contemplate for themselves, when they determine to settle on or cultivate a country seat or farm. Have they nothing in view but health, a calm retreat, amid rural shades and sylvan beauties? Then let the embellishment of their grounds and horticulture occupy their attention, and thereby, let them diffuse taste and useful elegance, to supply every population, how important is it, to increase the place of comfortless waste and idle profusion.

Do their pecuniary disbursements call for speedy supplies, then their objects should be to select the crops that produce most in market, and to draw the grearest product from the soil, in the condition in which they find it, of which it is capable of being made to yield, with the force of team and hands, which their means will enable them to keep, without entirely destroying future prospects of crops from their land. For these, the system of cultivation recommended by Arator for corn and wheat, and the modes pursued by the most industrious and intelligent planters of tobacco, appeared to me, the best that have ever yet been realized. Let this class of men also, keep no more expensive animals, than are profitably employed, and fatten only that kind of stock, which can be kept cheapest, and sells dearest and most readily. On the other hand, if their pecuniary circumstances, do not call for large or immediate supplies, it appears to me, that this severe mode of cultivation, is not ultimately so profitable, particularly to persons who occupy lands a good deal exhausted, as that system, the object of which, is not to obtain the greatest amount of disposable cash, but merely to produce enough to supply the frugal wants of their families and servants, and to maintain the working animals and utensils in good condition .- While the labour, which can be spared by thus making crops, which require less time in the cultivation, is diligently and judiciously employed in manuring, draining and every other way of improving, that can be devised. The land of the farmer is his capital, and say it yields only five bushels of wheat on an average, throughout the farm, to the acre, and wheat yields one dollar a bushel, and the expense of making the wheat, is one third, that is, 33 1-3, cents in the bushel; the profit per acre, is then \$3.33 1-3, and on a hundred acres of this kind, in cultivation, \$333,33 1-3; and we will say, such land can be bought or sold for to dollars an acre.

The question then, for our consideration, who are (at least some of us, and many throughout the country) possessors of this kind of soil, is, how to increase our capital, or our means of obtaining income; that is, how to make the greatest profit on this kind of land, or on the amount of it we hold. One hundred acres of it, now yields \$\$33,33 1-3 clear of expense of cultivation, and will sell for only one thousand dolars. Increase the expense of cultivation, by reducing the proceeds to \$233 33 1-3, that is, apply one hundred dollars worth of the time and labour expended by your hands and team, in cultivating the above crop, to manuring, ploughing and draining, and I think that a hundred dollars worth of time and labor, not money, thus applied, will give a greater profit than we could possibly obtain, by applying the same value of time and labor to making corn, wheat or tobacco. From an experiment that was made in my neighbourhood, it was ascertained with tolerable accuracy, that a two ox cart load of earth, leaves and trash, scraped from the woods, mixed with about

increase of one peck of wheat to the eart load; this at one dollar the bushel for wheat, makes the cart load worth 25 cents; and I have proved, as I will take another opportunity of shewing, that a cart and two hands, can at short distances, say three hundred yards, make 21 loads per day : making the profit of the labor of an ox cart and two hands equal to \$5,25 per day, and for 300 days, or one year of working days. \$1625. Now if the 100 acres. giving annually \$333.33 1-3 profit, will sell and is worth at the market price, \$1000, can be made to give \$1625 per annum, it would sell taking the rate of annual profit, for the rate of value, at near-

The income that can be made from a tract of land, ought surely to govern the price, and will always do it inten industrious and theiring agricultural section of country. Though that is not the ease altogether in this county, and for the sole reason, that we are not as industrious and thriving as our abilities and the capability and original fertility of the soil will admit.

This therefore, appears to me a view of the application of time and labor, more advantageous and profitable to holders of impoverished land, than any system, however excellent, of applying labor to the cultivation of the most profitable crops. In a system of farming, both modes of applying labor, are all important, but the labor applied to manuring. ploughing and improving, gives in the truly rapid increase it makes in the value of the land, greater increase, or funds, or productive capital, than any amount of dollars, that could be made by the best possible application of labor, to tilling and working plants of any kind in its present condition. When land is thus made rich, we all know that the labor of working it is reduced very considerably. Th most rapid fortune I ever knew to be made, on land that was poor when it was bought, was by a man named George Castor, he was a laboring man. who had amassed money enough to purchase 50 or 60 acres of land, and to retain in hand over and above the purchase, 4000 dollars. He moved his family on this land, and for two years diligently devoted his whole time to manuring and improving, and expended all his surplus 4000 dollars, in this way and not till the third year after he had moved on the land, did he attempt to make a crop. When his land was thus made capable of producing, and worth the labor of cultivation, he commenced making crops, and succeeded to make money fast and to become wealthy.

Farmers, who have not like him, surplus money to begin with, and to maintain their families while putting it in a condition fit for cultivation, may, many of them at least, spare some time and labor from the crop necessary to the maintenance of their families; and it appears to me, that no business or profit, that ever was pursued by men, is so profitable as labor, applied to manuring. If commerce, which yields 10 or 12 per cent. per annum on capital, can afford to pay 6 per cent to banks for the loan of money, manuring which certainly yields at least 2 or 300 per cent. per annum, where we have not to buy the manure, and at least 50 per cent. where we have to pay for it, may also afford it. It is because it is too easy for a farmer to live some how and keep free from debt, that farmers have been long in the habit of not calculating the best modes of applying time and labor. What other bu-

one third part scrapings from a cow ward, gave an priness or trade, mercantile or mechanical, parsued so carelessly and with so little correct calculation is farming is every where carried on, would fail to make men bankrupts, and utterly rain them. Merchants are every day becoming hankrupt, with a the keepness and attention which they give to their business, while farmers, bardly ever fail totally, in the worst of times, with infinitely less attention to their interests. Does not this shew, what are then sources of land? The management of land, is yet certainly not well understood: hat it appears to me, that money judiciou-ly applied to land and cultivation, may be made to yield a greater prolit. than in any other way of employing if, usual among men, particularly where land is as cheap as it is among us. We can buy it from 10 to 30 dollars per acre, and such will yield from 5 to 15 bushels per aere, and deducting 1.3 for the expense of cultivation, it yields from \$3 33 1-3 to 10 dollars per acre, when cultivated. To the 10 dollar land, apply 25 dollars worth of labor and manure, to each acre. At the very cheap rates that manure and labor can be obtained here, say for a man \$60 per annum, and \$20 for a woman or boy, that is one sixth of a man's yearly labor, or two months labor on one acre of one man. In two months, one man could cover an acre with manure, with no other implements than a spade, and a wheel-barrow; I choose this most difficult and expensive mode, for the sake of example. A cover, one such thick of manure, would at this rate, cost 10 dollars hire, and 10 more for maintenance, making for the spade, wheel-harrow and all, \$25. This cover of one inch thick, would manure. To prevent an excess of moisture, which almake this 10 dollar land, yield the next year at least 25 bushels of wheat, or 1000 wt. of tobacco, that is, in wheat \$25, in fobacco, \$80; deduct the third for cultivation, gives profit, \$17,66 2-3 for wheat, or \$53,33 13 profit in tobacco. With this tedious mode of improving it, this land would now only cost 35 dollars the acre, and in one year after paving for the land, the owner would have a sorplus of \$18,33 1-3, that is more than 150 per cent prolit in income, and 250 per cent profit in the increased value of the land, in all 400 per cent. 1 am not, you all must perceive, when you reflect,! speaking of impossibilities, but of what you know can be done, and I have stated the mode of manuring in the most difficult and expensive way, and not in the usual way with carts, and yet the profit of manuring, is such as you see it. To apply manure in the cheapest mode, that many of us have it in our power to do, it is profitable, (if there is any truth in arithmetic,) in a degree that infinitely surpasses any other useful occupation. Therefore, gentlemen, it is self evident to me, that there is no more profitable business followed by men than farming is, if industriously and judiciously followed. It remains only for as to gather the best experience, and to make the best use of it to improve rapidly our condition and consideration in the eyes of the world.

FROM THE ALBANY ARGUS.

## Treatise on Agriculture.

SECTION VI

Of MANURES - their management and application. THE principle of fertility (the result of animal susceptible of solution, and in this form becomes the aliment of that artificial vegetation, which is the work of man, and which leaves so little on the earth, to compensate for the great deal it takes from it. In a course of years, therefore, there will be an actual loss and vegetable decomposition,) is, as we have seen,

or subtraction of matter, useful or meessary to the growth of plants, which can only be re-established by manures of vegetable or animal origin. The most approved methods of preserving and applying, these must therefore be among the objects most important to he agriculturist; and that the reader may better understand the reasons of the practice we mean to recommend, we begin the discussion with Kierwan's an lysis of stable manures."

			4.		ed hy wate
Charcoal,	Lime,	Clay.	Sand.	Fixed Salts.	Carburated hy Crab. acid & wate
<b>O</b>	_	9	32	_	_

 $\left\{ \begin{array}{l} \text{Cow dung} \\ \text{Horse dung,} \\ \text{Sheep dung,} \end{array} \right\} \begin{array}{l} 3,75 & 1,20 & 0,15 & 2,40, 6 92,30 \\ 210. & 2 & 1,50 & 0,50 & 3,00,21 89,77 \\ 2035. & 0 & 10,28 & 29, 0 & 29,0 0,72 68,00 \end{array}$ 

The elementary parts of this manure, as exhibited in this table, sufficiently indicate the mode of preserving When dropped in the field and in small parcels, by cattle, they exhibit no signs of fermentation, nor undergo, in that state any degree of chemical decom-position; hut when brought together and frequently wetted and subjected to the action of atmospherick air, they are speedily dissolved and give out much gascous To prevent the escape of these soluble and matter. volatile parts, two things are necessary: Ist, that the dung be collected in a reservoir, of convenient size, walled and paved with stones : and 2nd, that a layer of sand or earth, be occasionally spread over the surface of the dung. The former will prevent filtration, and the latter retain the gaseous matter, so useful in vegeation, and at the same time augment the quantity of

culty, and has given occasion to some disputation. The

controverted points are :

1st. Whether short, or long dung or in other words, wether dung thoroughly rotted, or that, which has but began to rot, is most advantageous?

2d Whether dung used superficially, or ploughed deep into the ground, is most profitable?

3d. Whether extraneous matters admitted into the stercorary, are useful or otherwise?

4th. Whether stable manures are best applied directly or indirectly to wheat crops?

5th. At what time manures are best applied?

6th In what quantity?

We shall discuss these points, separately and briefly and,

1st. Which is to be preferred, long or short dung? The discordance in practice, as well as in opinion, prevailing on this question, induced some scientific men to institute a series of experiments : having for object a full and regular solution of it. With this view, parcels of dung (long and short) were taken from the same stables, on the same day, and applied to crops of the same kind, growing on the same fields. The result was perfectly conformed to theory and the similes in all the experiments. Those parts of the field, to which the short dung was applied, gave the best crops the first ye r, but those on which the long dung had been laid, gave the best crops the second and third years; a fact which authorizes the conclusion, that if we wish to obtain one great crop, the rotted dung is best; but when we look to more permanent improvement, the long dung is to be preferred.

2d. Which is the better practice, to spread manure on the surface, or lay it deeply under the ground?

In favour of the former practice, it has been contended that the distribution of the dung, could more equally be made on the surface, with a spade, than under

\*Tull and Der Hamel's doctrine, that frequent ploughings and sowings superseded the necessity of manure,

tap-rooted plants, entering far into the earth, required it to be laid deep, and that those of fibrous roots, would lumps of dung as may be found in them. be sufficiently benefitted by its exhalations. Bott modes, however, are obviously bad. We have seen, in the preceding article, that dung to become the aliment of plants, must undergo a decomposition, and that to the production of this, the combined action of air and water is indispensable. But if the manure be buried deeply, this action can not reach it, and the dung remains a caput mortuum. On the other hand, if spread superficially, the rains dissolve and carry away many of its juices, while the sun and wind evaporate the rest. These considerations lead to the true rule, on this head, completely destroy all action.

3d Are extraneous matter, as horns, hoofs, bones,

into the dung heap?

There is perhaps nothing in either theory or practice, so obviously right, that may not be disputed. The objection made to these matters, in mass, is, that they do not decompose equally, and that those argredients of the heap, which are slowest in decomposition, retard others, which if left to themselves, would, in this process, be more forward. This objection is without weight: for we have seen, that long, or unrotted manure, though its effect be less prompt, is, upon the whole, more favorable to culture, than that which is rotted The difference of time in decomposition, is therefore no cyil, and the augmentation of the mass, is a great good; beside that some of these offals are the most pow erful manures. Horns and Hoofs are compounded of albumen and gelatine; bones, of the phosphate and car bonate of lime and gelatioe; shells, of carbonate of lime and animal matter, and feathers and hair of albumen ple of the middle size. They generally appear about oil, &c. &c Applied to the roots, they forward the growth of fruit trees more than any other species of body. When wounded they bleed freely; therefore purges." manure

4th Whether the stable manures are best applied,

directly or indirectly, to wheat crops?

The practice, on this head is different in different places. In France, as in all other countries, where fallows are in use, the dung is applied directly to the wheat crop; while in England, where the rotation sys tem is established, it is applied to the summer crop. which immediately precedes that of the wheat.

The objection to the French practice is, that the weeds brought into field by manure, start with the grain, and do as much harm as the dung does good. Nor is there any sufficient answer, that I know of, to this objection. The English practice is, therefore, much to be preferred; because, besides the advantage of exchanging a fallow, for a summer crop, it permits the tumour from growing again. you, while that crop is growing, to destroy the weeds that otherwise would have infested your fields.

5th. At what time of the year are manures best applied?

The most approved rule, on this head, is to apply the winter dung wholly to potatoes, flax and corn; that of the spring, to cabbages and beans; and what may be afterward collected, to turnips; and,

6th. In what quantity ought we to apply them? The quantum of manure applied to the acre, must necessarily depend upon the staple of the soil. If entirely exhausted of vegetable mould, a great deal will not be too much; but there is a possibility of erring, in this respect, even with regard to poor soils. Where an excess of manure exists, the crop (whatever it be) runs into stock and leaf, and the effect on the flavor of the vegetable, is bad; a fact, which the experience of all who have tasted the cabbages and turnins raised in the paudrette of Paris and London, can abundantly establish. Even meadows (which are least liable to injury in this way) may be too much dunged. What cul. not be uninteresting: tivator of observation, has not seen his cattle turn with disgust from herbage, the most luxuriant in appearance, but growing out of masses of manure? This circum-

lows in the fall and break up and distributing such tainly an innocent medicine in the horse, but its efficacy

## Extracts from a Compendious Dictionary of the Veterinary Art.

[Continued from No. 23-p. 183,]

Age of Cattle. The age, neat cattle is known by their horns. Till the third year of their age is sufficiently indicated by their general appearance; they then change their horns for a permanent pair; these which is, to lay it three or four inches below the surface have a kind of button or circular protuberance of horn as an external application, the fermenting poultice has of the soit. At this depth, [if short dung] its action at the end next the head: the following year the butwill be most vigorous in all directions, and if long ton is impelled forward by the new shoot of horn, which tion, and Fever. dung, a greater depth will, as already suggested, has a button next the head like the former. The same process takes place annually during the animal's life. These protuberances take the form of a ring round the convulsive action of any part of the body, as in locked shells, feathers, leaves, weeds, &c. &c. to be admitted horn, which is easily distinguished, and by which the jaw. Opium, ether, and camphor are considered as age is known; counting three years for the point of the the most powerful medicines of this class horn, and one for each ring.

> Age of Sheep, is known by their teeth. In their secage of the goat is known in the same way, and that of deer by an additional branch appearing every year in

> the palm of their antlers, or horns.
>
> ANBURY, or AMBURY. A soft spungy tumour, somewhat is horses and cows. They are of value of the control rious sizes, sometimes less than a mulberry, which they often resemble in colour; at others, as large as an apthe nose but are found sometimes in other parts of the farriers generally attempt the cure by some escharotic application. The following has often proved successful

Powdered alum, two ounces-

Water, one pint.

Sulphuric acid, one dram-Mix.

When they are small and numerous, or if they have a wide base, this application may be safely used, particularly when professional assistance cannot be procured. If the tumour should be attached to the body by a slender neck, it may be out off with perfect safety and if there should be occasion to stop their bleed ug artificially, a circumstance I have never known, the red-hot iron may be applied for this purpose. After the anbury has been removed, the part should be touch from lethargy, or sleepy staggers (see Lethargy, ed with lunar caustic for three or four days, to prevent

ANTIBOTE. Medicines that prevent or remove the effects of poison; when a horse has been maliciously poisoned by arsenic, or corrosive sublimate, a solution of soap in some mucilaginous fluid such as infusion o Imseed, should be given freely; oil and salt of tartar, Epilepsy, Vertigo, Stuggers have been recommended also, and the liver of sulphur (sulphuret of potash.) The poison generally employseen to swallow this poison, an emetic given soon afhave known it succeed even after the convulsions, give it as a drink, mixed with ale which nux vomica occasions, had commenced. Emet ic tartar, turpeth mineral, or salt, are more certain in disposition, commonly requires bleeding and laxative their effect than other preparations, and should be given in rather larger doses than are usually employed.

ANTIMONY. A medicine much used in farriery: it is variously prepared, and though some of the preparations formerly employed are now thought by many veterinary practitioners unnecessary, and I am inclined to from want of appetite, as from pain and difficulty, believe they are so, the following account of them may either in masticating their food, or swallowing it; the

mineral, composed of sulphur and a peculiar metal. Sore Throat Should the horse continue off his appewhich, by a chemical process, may be separated from it. When finely powdered or levigated, it is considered a good alterative medicine, and is commonly employed in the diseases named Surfeit and Hidebound It is often given merely with a view to improve the horse's appearance, that is, to give him a fine glossy coat; it is generally recommended also for those dis

ground, with a plough;" and for the latter, that all stance suggests the advantage of going over our mea-jagainst the stall, &c. Sulphuret of antimony is cerhas been doubted on account of its apparent inertness. The common dose is about an ounce; it may be given, however, in larger doses with safety. See Reese's Cyclopadra, art. Antimonu.

Precipitated Sulphur of Antimony, or Golden Sulphur of Intimony. This preparation has been found useful in obstinate diseases of the skin, when joined with a small proportion of calomel. The dose from one to two drams, with about a scruple of caloniel.

ANTISEPTICS. Medicines which prevent or correct putridity. Peruvian bark, opium, prepared ammonia, yeast, and wine, are said to possess this property; and, been strongly recommended. See Poultice, Mortifica-

ANTISPASMONICS. Medicines which are designed to cure those diseases which depend upon spasmodic or

Apoplexy. According to Gibson, the following are the symptoms of this disease: "In apoplexy, the horse ond year they have two broad teeth before; in their drops down suddenly without sense or motion, only a third year they have four; in the fourth, six; and in working of his flanks: the previous symptoms are drowthe fifth, eight. After this period the age cannot be siness, watery eyes, somewhat full and inflamed, a disaccurately known by the teeth. The age is indicated position to reel, feebleness, a bad appetite, and alaso by their horns, which are not changed as in the most a continual hanging of the head or resting it in cow, but have an additional ring every year; only one his manger; sometimes with little or no fever, and year is to be counted for the point of the horn. The scarcely any alteration in the dung or urine." His scarcely any alteration in the dung or urine." His method of treating it consists in "bleeding plentifully, and keeping the horse for some time to an opening diet of scalded bran, and sometimes scalded barley, lessening the quantity of his hay. After two days the bleeding is to be repeated, but in a smaller measure, if the horse has a cold, it will be proper to give him pectorals, such as are prescribed for colds; but if no symptoms of a cold appear, it will be necessary after bleeding and a spare diet, to give him two or three aloetic

Apoplexy seems to depend either upon too much blood being sent to the brain, or upon a rupture of a blood vessel in that organ: bleeding therefore is the essential remedy; to prevent a return of the fit, purging medicines, with an opening and spare diet, are certainly proper: but I think the "scalded barley" may well be dispensed with. Setons or rowels should be placed bout the head, or the whole of the forehead blistcred. The most effectual mode of bleeding in this disease is to pen one or both of the temporal arteries: but where this cannot be done, both of the neck veins should be opened, that a large quantity of blood may be taken off in a short time. It is necessary to distinguish apoplexy cause that disease requires a different treatment. There are other fits to which horses are subject, that may appear to be a slighter degree of apoplexy than that described by Gibson; but as their treatment is in some respects different from that of apoplexy, they will be described under the following heads: Dropsy of the Brain,

APPETITE. Want or loss of appetite may arise either from fatigue, from what is ternied fever in the horse, ed to destroy dogs is nux vomica: when a dog has been or from a diseased state of the digestive organs. If it depend on the former cause, give a cordial ball; and ter will effectually prevent any ill consequence. I if the subject be old, or accustomed to take cordials,

Loss of appetite, depending on fever, or general inmedicines; but if it is caused by worms, or a diseased state of the stomach or bowels, a mild mercurial purgative is most proper, unless the disease be of an inflammatory nature.

Horses sometimes fall off in condition, not so much ot be uninteresting:

Autimony or Sulphuret of Antimony. A black, shining be seen under the heads Mouth, Teeth, Diseases of, and tite after the operation of the purgative, tonic medicines may be given (see Tomes). Loss of appetite accompanied with languor and general debuty, often happens at the time of moulting or changing their coats, in such cases both bleeding and purging are improper, not tonic medicines will generally be beneficial.

. Ippetite, Crawing, may justly be considered a disease eases of the skin which cause a horse to rub himself and one of importance too; for unless restrained, it of

<sup>\*</sup> The English (are said) to have a machine attached to the drill, that goes before and distributes the manure at the necessary depth. In planting potatoes, we make a bed of dung for the plant. Why not apply the same reasoning and the same practice to all seeding of the ground?

other diseases. Horses that have this excessive apper giving correct accounts of the modes pursued in flesh in the interior of the mouth, must be taken tite will eat even their litter when limited in hay, the only effectual restraint, therefore, is a muzzle which should be worn constantly, except when he is feeding. The corn should be mixed with a large proportion of clover chaff, and only a small quantity of hav allowed; his allowance of water also should be very moderate. A purgative is the only medicine like ly to be of service.

Arsenic. A poisonous mineral, sometimes used in veterinary medicine, both internally and externally Though arsenic has been given to glandered horses in the immense dose of two drams, in many instances without any violent effect; it has sometimes, in much smaller doses, irritated the stomach and bowels in a considerable degree; and in one case, where it was continued by mistake, after that effect had been produced, the horse was destroyed by it; much caution therefore, is required when arsenic is employed. It is proper to begin with small doses, about ten grains. increasing them gradually, and carefully watching the effect. Whenever it appears to diminish the appetite, or cause uneasiness in the stomach and bowels, no more should be given until such effect shall have ceased. Arsenic should not be given when the stomach have been at various times adopted, with a view large the leg bones cannot be conveniently reis empty; a thin bran mash first may be given to the horse. Arsenic has been considered as a powerful them in their natural forms, for which purpose it is practicable, considerable advantages will actonic, and has been often employed in glanders and farcy; it has also been given in cases of general debility. (See Appetite, Glanders and Farcy) Arsenic is sometimes employed as an external application in sevcaution, and generally requires to be diluted or mix d with other drugs. To dissolve arsenic, it should be boiled in water, with an equal quantity of carbonate of potash; in this state it is said to be less dangerous. See Mange, Scab, Canker, Quittor, and Spavin-Bone. [To be continued.]

## Instructions for Practical Naturalists.

To number 18, page 141, under the head Hints to American Tourists in foreign Countries, we copied instructions for the preservation and transportation from one country to another, of SEED and PLANTS; we have now the pleasure to add what may prove useful hints to the American Traveller and Zoologist, who desires to study the history and to preserve specimens of individuals in the animal kingdom.

On procuring an animal with which we are unvertible into food, clothing, or is otherwise appliwhat purposes (if any,) and by what means it is rendered subservient to the uses or comforts of change. the inhabitants of that country where it is a nathe species, or to avert its mischiefs.

generally consumed by each particular kind, its time of gestation, the number of young it produces nours after the subject is dead; as in that time neral plan, we have succeeded best by exposing at a birth; at what age it arrives at full growth; the blood will have coagulated, and there will be from time to time, the dry skins to the action of the differences in appearance in the different sex-[less danger of soiling the skin. es; whether as it advances in age, any particular change takes place in its general appearance, of the belly, and the skin stripped back to the either by attaining horns, tusks, &c. &c. By at- knee and elbow-joints, which should be left with tending to particulars of this kind, the practical the skin, care being taken to remove all the flesh naturalist will not only obtain a mass of informal and integuments from the bones; the skin may tion amusing and instructive to himself as a phi- then be drawn over the neck and head; the body case with a glazed front, having all the seams or losopher, but most probably of very considerable is to be separated from the head at the first joint; joints carefully stopped, by pasting strips of paper

different countries, to obtain the various kinds of away, and freed of all loose skin, or integrments, animals either for food, raiment, or amusement; that may be attached; when this is effected, the the plans adopted to reduce the wild animals to a kin may be returned to its proper position; and state of domestication, and by stating whether, the cheeks must be filled out with cotton or other when so domesticated they continue to propagate; soft substance, mixed with a considerable quanand what species are in general request either for domestic purposes or exportation.

It is obvious, that enquiries of this kind cannot fail of ultimately producing general good, as by becoming acquainted with the wants and products of distant countries, the attention of our filled with pledgets of cutton, dipped first in a merchants and manufactures, will be naturally strong solution of corrosive sublimate of arsenic, turned to the supplying those wants, and by the and a quantity of the powder strewed into each exchanging the manufactures of this country for place. the natural productions of others, reciprocal advantages must accrue

To facilitate the enquiries of succeeding naexamination to the man of science, many plans success, we shall now proceed to detail.

eral diseases; but in these also it should be used with anxious to preserve, we take its measurment, as preserved, whether attached to the skin or not. by so doing, we are the better enabled to judge ()f such animals as possess soft or spungy feet, The length of the animal from the nose to the insertion of the tail, the length of the tail; the appearance in the structure of any of its parts, head, and the incisions sewed neatly up. should all be carefully noted.

following particulars should be observed. The drying should be performed in the shade, and the number, form, disposition, or absence of the teeth, utmost vigilance is necessary in observing that horns, and claws; if the latter are retractile as in no skin be packed till it is perfectly so; and to the cat tribe; the form of the feet or hoofs, whe-assist in drying, the skins should be kept disther the animal be covered with wool, hair, spines tended, and exposed to the air. In skinning its ears and tail, if the latter be prehensile, or is pouches, it would be better to open them lonacquainted, the first point to which our attention capable of being used as an auxilliary in seizing gitudinally on one side, otherwise this curious should be turned, is to ascertain whether it is con- any object, or to assist in escaping from any dan- character will be destroyed; and in all animals ger; if the posteriors are bare or callous, and it possessing glands for the secretion of musk or cable to the uses of man; whether its skin is of the animal is capable of distending its cheeks, so udour, these organs should be carefully preserved. such a nature, as to be serviceable in trade or com- as to form pouches, as in many of the Monkey merce; whether it possesses glands for the secre- tribe; or if possessed of abdominal pouches for the much time in procuring, to preserve them free tion of musk, or other unctuous matter; whether securing of their young, as in many quadrupeds of from injury when obtained, is an object of the first from its size or nature it is likely to be reducible New Holland; the color of the eyes should be no to agricultural purposes, and most particularly to ticed the instant the animal is obtained, as almost immediately after death it is subject to

When the foregoing remarks have been made, tive; or should its habits be detrimental or ob-lithe next object is to skin the animal; and as the noxious, what measures are pursued to destroy value and appearance of a cabinet of quadrupeds depends entirely on the perfect state of the skins, Endeavours should be used to ascertain the food too much pains cannot be bestowed in the ope-

The animal should be opened down the middle importance to the community at large; and this he the surface of the skull must then be thoroughly over them; in this state the case should be gradu-

ten causes incurable cough, roaring, broken wind, and imay render entertaining in the highest degree, by cleared of all flesh; the eyes, brain, tongue and tity of antiseptic powder, composed of one third of white oxide of arsenic, and two thirds of powdered burnt alum; this powder should be rubbed lin the inside of the mouth, and all the cavities of the head, as the eyes, ears, and nostrils, should be

> The inside of the skin, and the leg bones, when quite clean from all loose skin, &c. should be rubned well with the powder, this rubbing should be turalists, as well as to afford an opportunity of repeated occasionally until the skin acquires a considerable degree of dryness; if the animal be to preserve the skins of animals, and to exhibit lained, attached to the skin, but in all cases where the mode we have practised with the greatest crue from their preservation;—this last remark applies also to the skulls of the larger quadru-Having obtained any quadruped which we are neds, which should in all possible instances be of its proportions when exhibited in a cabinet the soles may be opened, and all the fat and muscular parts removed, after which, the powder should be applied plentifully, and before the height at the shoulders and hips; the girth at kin becomes hard or dry, the cavities of the feet the neck, breasts, and loins, and any remarkable should be filled with cotton as directed for the

When the skin is thoroughly dry, it should be In drawing or describing any quadruped, the so packed as [if possible,] to exclude insects; the ar scales, does it possess any name; the form of those animals that are furnished with abdominal

As a collection of skins necessarily occupies importance. In order to succeed in this, two principal causes of injury must be carefully guarded against-Damp, and the attacks of Insects; the former we generally have it in our power to avoid, but the latter assail collections of this kind in so many ways, and under such varied circumstances, that the collector must be ever on his guard; since it very often happens that the very means used to destroy one kind of insect, calls into existence ration, which should not be commenced till some myriads of others equally destructive. As a geneat, which by repetition, though it may tade their colors, in a slight degree, has the great advantage of eventually destroying all insects.

When a box is filled with skins, or rather when box full is obtained, if circumstances will permit, the skins should be loosely placed in a large six or eight hours; by having a glass front, if any insects, particularly of the Moth kind, are amongst the skins, the heat will soon cause them to flutter about, and they can easily be perceived when dead. But lest any of the insects so destroyed, should skins being finally packed.

wrapped in a separate paper, (the common brown) paper is to be preferred in all cases, as it resists damp more than any other kinds, and is less liable to be devoured by insects,) with a memorandum of what particulars belong to it, as the having a duplicate of this kind, though it may trespass somewhat on the time of the traveller, will not unfrequently amply repay him for his trouble. The skins should be packed as close as possible, and when the package is full, the joints and cracks should be stopped with pieces of paper pasted over them, but even in this, some caution is necessary, as paste affords a nidus to numerous insects, which frequently deposit their eggs on it, as a proper food for the effects of this kind a considerable portion of corrosive sublimate or arsenic should be mixed with the paste before it is used: and when the paste is thoroughly dry, the places so covered should be washed over with a strong size, in which arsenic or sublimate is held in solution; the size may be formed of pieces of skin boiled in water, until completely dissolved, and the arsenic or sub-imate should be mixed with it whilst hot. If previous to being put on ship-hoard, the cases should be covered over with with a thick coat of oil paint, it would most effectually exclude hoth damp and insects, with these precautions, we have known skins of the most delicate species of quadrupeds and oirds, remain packed for three or more years, even in warm countries, without receiving any perceptible injury.

When a box of skins shall be re-opend, the skins should be exposed to the fire as before directed, after waich they will be in a fit state to put up. This part of the undertaking is attended with a considerable portion of trouble, and to succeed well requires no small degree of ingenuity. We recommend every person desirous of a taining perfection close; after which it should be placed in a glass in this art, to have a lesson or two from some skilful practitioner, as it is not an easy matter to succeed in a task of this kind from any instruction, without the assistance of practical illustration.

The hest mode to pursue in setting up the smaller kinds of quadrupeds, it, by forming a false body: this may be done, with a piece of iron wire, of a substance proportioned to the size of the animal, and should be of sufficient length to pass through the skull (if retained,) and to protrude a little, and also to extend rather beyond the tail; the ends of their tearing the skin; and it should have previously been thoroughly heated in the fire, to render of quite flexible, this is to be wrapped round with tow or fine rope-yarn, till it is sofficiently large to the out the skin; lateral pieces of wire should be introduced through the soles of the feet, and when practicable through the leg-bones, and attached to the principal wire running through the body; every pari of the skin should be filled out to its full extent; and some of the powder should from time to time be introduced with the stuffing, the leg-wires must

ally brought before a large fire, where it may remain | be sufficiently long to pass through the soles of the [ feet, and through a piece of wood capable of supporting the animal, to which it may be fixed, as it can then more easily be dried. Previously to the skin being stuffed, if a dried one, it will be necessary to wrap it in damp cloths for twenty-four hours have deposited their eggs on the skins, the frequent or even longer, according to the size and substance repetition of this plan is desirable, previous to the of the skin, some of the largest quadrupeds will even require thoroughly soaking in water for some When about to be packed, each skin should be days; animals of the size of the horse, ox, rhinoceros, &c. will be most faithfully represented by having their skin supported by a frame of wood, which will give them stability, otherwise from their weight they are liable to get out of shape; but as it is hardly probable that the stuffing of this description of animals will be attempted by any but a professor, we consider further remark on this point unnecessary.

When the skin is filled out to its extent, it is to be carefully sowed up with strong double silk; the needle should be a curved triangular one, such as is used by surgeons, the fur may then be smoothed over the seam which will hardly be perceptible.-The animal should be placed in as easy and natularvæ when hatched. To prevent any unpleasant ral a position as possible, at the same time recollecting that natural effect ought not to give place to elegance of form. Before the skin is quite dried, the eyes should be inserted, and to enable the operator to represent the animal with eyes of their natural color, it is desirable to have as correct a representation of them as possible; glass eyes of all sizes and tints are to be procured at the glass head makers, in London; they should have a piece of wire attached to them, by means of which they may be securely fastened; and to give them a natural appearance, they should be somewhat larger than the natural eye, and the eye-lids must be carefully brought forward so as completely to in clude, and which will reduce them in appearance to the natural size.

The next business is to dry the stuffed skin, which may be best done in a shady room, into which the air is freely admitted; in a week or more, according to the bulk of the subject and the state of the atmosphere, the skin will be dry: but to dislodge any remains of moisture, it may be brought within the influence of a fire, but by no means case, with the seams and joints closely pasted up; and lest any insects should be attached to the skin, it will be better that the case be baked, in the manner already directed, relating to the packing the skins. The skins of animals that are in a recent state, should be treated in all respects as the foregoing excepting that the skins should not be filted out to the full extent, as in drying the skin is liable to shrink: fresh skins will also require much more of the antisceptic powder to be used when stuffing as it absorbs the grease contained in the skin; and the wire should be filed to sharp points, to prevent | they will require longer time in drying, before they are in a fit state to place in cases. The wires that pass through the legs should be brought through the bottom of the case and there turned, by which the skin will be kept in an erect posture, and to prevent is weight inclining the animal forwards, a piece of vire may be introduced through the back of the case and attached to the body, which will effectualiv prevent its moving, at any time the case may require to be taken down. As a pleasing relief and to ornament the iosale of the bottom of the case, a | deavoied to avoid all unnecessary expense and trouquantity of dried moss, finely powdered and mixed lote; the antisceptic he recommends, possesses all

with a little coarse sand, may be sifted over it, first moistening the ground with thin carpenter's give; the ground may be further enlivened by introducing sprigs of moss or dried grasses,

To persons visiting foreign parts for the purpose of pursuing this study on a more extended field, we take leave to remark, that in all cases where it is practicable, the skins of both sexes in the adult state are particularly desirable, as also that of a young, when any remarkable difference is annarent, as for instance, the skin of Felis concolor, the Puma or American lion, is, as its specific imports,) of one uniform color, whilst in its infancy it is spotted, afterwards the spots appear oblong, almost stripes, and when it attains its full growth,

they entirely disappear.

As it may be more convenient, at the time of procuring many of the smaller species of quadrupeds to preserve them entire, till a more convenient opportunity offers for stuffing them, they may be safely put into glass or earthern jars, or small casks filled with one third spirit of wine, arrack, rum, or other spirit, and two thirds of a strong solution of burnt alum, care should be taken not to use, if avoidable, colored spirit of any kind, as it frequently happens that when colored, it will leave a stain on the lighter parts of the skin or fur, that cannot be removed. The solution of aium should be made by pouring one quart of boiling water on eight ounces of alum, and when cool, the water should be poured off, as some water will not hold that quantity in solution; and if a larger quantity be dissolved at any one time than is required, the water may be evaporated either over a fire, or by placing the solution within the influence of the sun, and the alum will be deposited in crystals, which only require being burnt over a common fire to be fit for using again. The preserving in spirits has this decided advantage, that at any subsequent period the aninal will be seen with all its parts perfectly, and may offer interesting amusement at a more leisure moment, that often falls to the lot of collectors whilst absent from home.

To succeed in the different operations already enumerated, the traveller most be supplied with the necessary instruments, and these in duplicate; such as Dissecting Knives, Scissors, Forceps, of different shapes and sizes; and what we have found particularly useful, is an instrument known to hardwaremen by the name of Budding Knife, and for which purpose it is in general use by gardeners; the blade should be long and thin, and the handle thin, llat, and rounded at the edges; besides these, Pliers of different sizes and forms as round, flat, and cutting, are indispensible; Needles of various sorts, as surgeon's curved and flat needles; straight triangular needles, such as are used by glovers; and the common kinds in variety. The latter besides being useful to the traveller himself, may prove a most valuable present in distint countries, where the intercourse with Europe is but triding or accidental. Strong Thread and Sitk should not be omitted; but the latter is always to be used an sewing up skins. Various kinds of Paper should nkewise form part of the traveller's investment and particularly coarse brown paper, as it is of more common request and possesses many advantages over the other kinds.

In the foregoing instructions the author has en-

one on a similar plan; which may be procured at

the requisites and though simple, he feels confident paper that has been saturated with alum and arsenic constants in their pocket book; or at least some it will be found equally efficacious with any of thein solution, has also been successfully tried. most expensive preparations of the kind; but as it. As each practitioner has a method peculiarly his most booksellers or stationers, ruled to their own may not at all times be obtainable, any of the follown, in performing the operations of skinning and pattern, by having tables of this kind always at lowing articles may not be used with a probability of stuffing animals, the author does not presume to say hand, opportunity is afforded of immediately putting

re enveloping a skin in common brown ery person attending to Natural History to have

his is the best; but if simplicity joined to economy our remarks on paper, without any delay, as it of-Ground or whole pepper and most kinds of spices, are worth attending to, his plan at least has these ten happens that when subjects of this nature are

avoiding those of an oily nature; ground tobacco: to recommend it.

corrosive sublimate; sulphur, musk, burnt, alum

To facilitate naturalists in making their remarks after occurring, the ideas of both became confoun-(which may be prepared by burning common alum on any animal they may procure, a sketch of a ta-ded, and a difficulty is experienced in the separaover a fire till it loses its transparency;) camphor : ble is annexed, which we would recommend to ev-ting the particulars of each.

mere	enveloping a skin in	common brown erv	person attending to Natural History to	Have			1
Date   1819	MEMORANDUM.	F00P.	Places of Resort and Manners.	1	Length G	Color.	of cyes name
May 23	ered a small animal which was sporting a- mongst the shoots of the Coeoa Palm: we killed two, which prov- ed to be mail and fe- leade. On examination	leaves and shoots of the Cocoa Palm. Af- terwards having ob- tained one alive, we found it easily tained, and that it eagerly drank of the wine made from the Palm- Tree.	We found this species extensively dispersed from lat. —, to lat. —: they associate in large numbers, and on the least noise they lie lengthways along the branches, with their tails extended: at one time we observed them greatly alarmed at the appearance of a snake, which was making its approaches along the branches and though so terrified that numbers let go their hold and fell to the ground, not any attempted to escape: the snake having taken two or three, retired, and the squirrels again resumed their sprightliness; we at various times noticed them devoured by the smaller birds of prey.  They build in the alæ of a branch, or in a hole in a tree; their time of gestation (we were informed) is five weeks and they produce four at a birth; these are eagerly sought for by the natives, who exchange them with the in habitants of other islands, where they are kep contined in cages, ingeniously constructed of thin slips of cane: in confinement they feed of fruit.	is nearly over, the inhabitants go in numbers into their places of resort and kill them by hundreds, either with blunt arrows or sticks; these are procured for the sake of their skins, which are in great request for the purpose of clothing, and every family is expected to present a certain number to their chief every hunting season; besides which they part with them to neighbourting tribes in exchange for cattle, tobacco, and what European produce	About four inches and a half. Length of the animal, from the top of the nose to the insertion of the tail, five inches; the tail three inches.	Budy greyish brown, with three longitudinal yellowish stripos, tail annulated with black and white.	yellow. Soon yellow tinge and
29 Jun 3.	they migrate twice a y able to avoid the incon falls, which they cover day they use their fic	ear, and were now on the veniences of the rainy so with houghs, at the dissible food, and their sky. Zebras, but at such a distinct howlings of Hyw.	n immense herd of Antelopes that passed our eneir route to the South-west; and they return age ason, as also those of extreme drought. The stance of ten or twelve paces apart, in some actions for various domestick purposes, stance as to be beyond the range of our rifles, has, and other wild beasts; but as we kept upon the range of our rifles.	gun in about two months; natives, as soon as they o arrow pass, and often cap	by these bserve the thre seven aight we	migrat e first h eral hut were ke	erd, dig pit- adreds in onc

#### FARMER. THE

BALTIMORE, FRIDAY, SEPTEMBER 10, 1819.

#### GUINEA GRASS SEED.

our southern states.

supply, in those states at least, the great desideration so much required, to complete the sorting system, by giving a cut of green food, at seasons when no other kind of grass can be relied on to yield it ? into Jamaica, and its peculiar adaption to the soil,

son. Such lots, would give a fine heavy cut, at least tv grains, which when again sowed, were equally three weeks before clover, with which it might h productive. By little and little, says (Gomara) sowed as a protector, and would offer itself to the there was raised an infinity of it. (Cronica de la scythe three times during the year. In page 214, Vaeva Espana, chap. 231. 15. Edwards says:-

"The other kind called Guinea grass, may be consid-Within the last week, we have been kindly furnished with a small parcel of Guinea Grass Seed, as most of the sugar cane, in point of importance; the Emperor, twice importances him to order plants as most of the sugar cane, in point of importance; the Emperor, twice importances him to order plants a most of the sugar cane, in point of importance; the Emperor, twice importances him to order plants a most of the sugar cane, in point of importance; the Emperor, twice importances him to order plants a most of the sugar cane, in point of importance; the Emperor, twice importances him to order plants a most of the sugar cane, in point of importance; the Emperor, twice importances him to order plants a feet a sugar cane, in point of importance; the Emperor, twice importances him to order plants a feet a sugar cane, in point of importance; the Emperor, twice importances him to order plants a feet a Within the last week, we have been kindly fur-ered as next to the sugar cane, in point of importance; the Emperor, twice importances him to order plants to doubt that it would be a great acquisition, in all It was not long before the eagerness displayed by the catherine by a letter from a gentleman, whose tle to reach the grass, attracted Mr. Ellis' notice, and in-May it not, indeed, happen, that this grass, will mow thrive in some of the most rocky parts on the island; forbidden to mention, as such names would not fail the states at least, the great desideral most be stated by the states at least.

Cortes, that politic savage, in his fourth letter to

Our seamen including the supercargoes with the The want of an early cut of grass, coming in be and climate, will remind the reader of the first in various ship officers, have done but little for their fore clover and of less difficult cultivation than lu troduction of wheat into Mexico, with a bag of rice country's improvement. They explore every clicern, is well known to every farmer. This deficien in opening which, Corte's negro slave, Juan Garri-finate, and should always bring home something that cy, we are of opinion, might be removed by sowing do found three grains, and sowed them in a garden hight benefit the country-valuable animals, seeds, lots of ground, in good heart, with RyE, at this sea-two of them grew, producing one hundred and eigh- oc. &c. If the first column of your paper contained

the finest and most desirable stock of each country. the best method of preserving seeds,\* and what trees, shrubs, plants and grains, are most desirable, the intimation would operate as a stimulous. The heautiful and superior cattle of South Americathe pure breed of pacing horses of Chili; the fine hornless milk cattle of Suffolk, and the immense long wooled sheep of Leicestershire, in England; the fine breed of white horses in sweden, and the thousands of useful and ornamental trees, shrubs, plants, grains and grasses, that we have yet to experiment upon. It is to our merchant ships, we must be indebted for these.

i he present Secretary of the Treasury, by his instructions to our Consuls abroad, has paved the way, which there can be no boubt will lead to great improvements in the agricultural productions of our country Already have we seen seventeen different kinds of grain, sent in virtue of these instructions, and placed for experiment in the bands of Er. S. THOMAS, an enterprising farmer of this county.

Thus it is, that man is often indebted for his greatest blessings and benefits, rather to providential accidents, than to his own foresight and management-as the human character itself, is trequently modified and rendered eminent for its virtues, or detestable for its vices, according as it happens to be impelled by external circumstances of a propitious or ruinous tendency. It was, as we are told, for example, a chance, that illumined the genius of Milton. Cromwell died, his son succeeded him and was driven out of England; Milton participated his ill fortune; he lost the place of Secretary to the Protector, was imprisoned, released and driven into exile At last he returned, retired to the country, and there, in the leisure of retreat and disgrace, he executed the poem which he had projected in his youth, and which has placed him in the rank of the greatest of men.

If Shakespeare had been like his father, always a dealer in wool; if his imprudence had not obliged him to quit his commerce, and his country; if he had not associated with libertines, and stole deer from the park of a nobleman, had not been pursued. for the theft, and obliged to take refuge in London, engage in a company of actors, and at last disgusted with being an indifferent performer, he had not til the farmers of our state get into the habit geneturned author; the prudent Shakespeare, had never rally, of cleaning their grain by machinery, they been the celebrated Shakespeare; and whatever ability he might have acquired in the trade of wool, farmers, nor can our market acquire that high chahis name would never have reflected a lustre on racter abroad, of which it is so easily susceptible. England

f A chance, equally trivial, to all appearance determined the taste of Molier for the stage. His grandiather loved the theatre and frequently carried him there-the young man lived in dissipation; the father observing it asked in anger, if his son was to be made an actor. Would to God said the grandfather, he was as good an actor at Mont rose. Those words struck young Molicre, he took a disgust to his trade, and France owes its greatest comic writer to that accidental reply. Moliere, a skilful tapestry-maker, had never else been cited composed Melite, the Cinna, Rodogune, &c. was the honor of his country, and is an object of emulation for posterity. The discreet Corneille had

a standing admonition upon the subject, pointing out | remained a lawyer, and composed briefs that would | We should be thankful to any of its members, who Thus it is, that the death of Croinwell, deer-steal-tural Society of St. Mary's County—with a list of the names of the members.—The same request is made of ing, the exclammation of an old man, and the beau-all other Agricultural Societies, which have been or ty of a woman, have given four illustrions charac- may be formed in the United States. Let others record ters to Europe.

> European grain was first brought to Quinto by the convent of St. Francis, and the monks to this the Duiry. day exhibit the vase that contained the original grain as if it were a sacred relic. (Bonycastle's Compend, &c. on South America, p 222.) But Humboldt, says a vast deal on the subject in his Politi- 1, will be sent in good order to any part of the U. States. cal Essay on New Spain.

#### WORTHY OF IMITATION.

In farming, as all things, care and cleanliness particular article they may wish to find. find their just reward in purer health, greater respectability, and increased emolument. The latter effect was happily exemplified this week, in the sale of a lot of 900 bushels of white wheat, sent to this market by Tench Tilghman, Esq. of the Eastern shore of this state.

A sample of it is lying before us, and for perfect cleanliness and entire freedom from garlick, cockle. nay even from dust, it equals any ever seen in any market. A proof of its fine quality is, that it sold for \$1 25, at the same time that other wheat of the same species, less perfectly clean and by different from 20 to 60,000 fish each-making a total of process, would not bring at the highest, more than 604,000. \$1,14, making a difference on this load, of \$99 in favor of care and nice management.

It is observed, that the Messrs. Dawson's have worth "trying," at least. for sale some imported Threshing Machines of convenient moveable form. We do not know the price, nor have we seen the machines, but we have heard them several times highly spoken of, for their convenience, simplicity and efficacy. We shall endeavor to obtain accurate and satisfactory informa tion about them, for it is quite apparent, that unmust never expect to enjoy the reputation of good of fair day.

A small fund should be raised by Agricultural to be sold by PIIILIP TURNER, Trustee, under a de-Societies, for the introduction into each neighbor cree of the Chancellor. It lies six miles below Benehood, or country at least, one of all the newest and dict, bounded by the Patuxent River, for nearly a mile best agricultural implements—let their operation he and possesses a large proportion of fine meadow land exhibited for a short time at the county townsexhibited for a short time at the county towns——as a grazing farm is said to be equal to any in the say at a meeting of the courts. This would lead county. There is on this land a Grist Mill in good orto their general adoption, and consequently to the der driving two pair stones, and a Saw Vi'l might be great saving of labor, and to the best modes of also for a Tide Mill. which would be very valuable practical agriculture.

#### GREAT DISPATCH IN WHEAT CLEANING.

On the 26th day of August, 1819, at Waverly, the seat amongst the great men of his nation. Corneille loved, he made verses for his mistress, became a poet,

Jacob Bronneell's Patent Fans, made and sold in this
composed Melite, the Cinna, Rodogune, &c. was

city by Henry Herring, (and of which an elegant engraving is to be found in the 13th number of the Balti more American Furmer,) cleaned twenty-six and an half money. Persons having money to invest in Real Esbushets of chaff Wheat in seven minutes and an half .-The presence of seve ral gentlemen of the first respectability, who held their advantages. The situation is not exceeded for healthwatches, and who have certified the fact.

have been forgotten with the causes he defended will send us a copy of the Constitution of the Agriculand mark the changes of constitutions for political govcrument-Be it our business to register those which may be established for the regulation and better man-Father Jose Roxi, who sowed it in the grounds of agement of the Plough and the Harrow-the Loom and

#### NORTH CAROLINA MONEY.

Notes of the state Banks of North Carolina, will still be received at par for the American Farmer. Four dollars being paid, a complete file, commencing with No.

#### AN ANNUAL INDEX.

The subscribers to the . Imerican Farmer, may expect an Lidex to accompany each volume at the end of the year, which will enable them to turn readily, to any

AN ERROR.-In the last number of this paper, in the extract from the American Practical Gardener—article Budding and Inoculating, instead of unite the bandages, read untie the bandages.

PRICES .- As to the prices of Country produce, we bave nothing material to say to our subscribers this week. Some change has occurred in Wheat-Red may be quoted at 1 07 to \$1 10-White, at 1 12 1-2 to \$1 15 -Hay, best Timothy, \$20.

Sixteen vessels arrived at Beverly, lately, with

The Arkansas territory, over which Gen. Miller is to preside, as Governor, is represented as rich in It is not known what the machinery cost, with soil, and having the advantages of an unobstructed which this beautiful wheat was cleaned, but probamic and noble river of more than 2000 miles in extent. bly not more than the sum gained on these 900 It is also said to abound in silver, and that with half bushels How long then will farmers go on in the the labor and expense that is expended in working old way, treading ont with mules and horses-and the mines of Peru and Mexico, a richer abundance then waiting for a strong northwester to wind it out of the precious metals might be produced. It is

#### SAINT FOIN SEED.

PECENTLY improved from Bordeaux, is offered for sale, in parcels to suit purchasers, at No. 88, Bowly's Wharf, at \$10 per bushel-by

WILLIAM CHILD.

## LAND FOR SALE.

## 1078 acres of Land.

property in a neighborhood where the running streams are so apt to be dried up for some months in the summer. It has on it a large two story frame Dwelling, and an orchard abounding in a great variety of fruit.

Terms of Sale-One half to be paid in 12 months—the other in two years, with interest from the time possession is given, which will be on the first of next Jansary. The purchaser may sow grain at any time after he gives his bonds with good security for the purchase tate, have here an opportunity of acquiring an estabhishment which holds out numerous and very convent inces, by any on the Patuzent. Sept. 10.

<sup>\*</sup> In No 18, page 141 of this volume, the reader will find particular directions for preserving seeds.

## Palues Cukrent AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Nevisca and Corrected every		
ARTICEST	ETAIL	PRICES
BEEF, Northern mess bbl.	15 123	
No 1 wholesale-	103	
No 2 ) lb.	16	
Butter, Ferkin, wholesale.	18 33	
Coffee, first quality,	27	28
second do.	17	
Twist, No. 5,	41	45
No. 6 a 10, - No. 1t a 20, -	75 53	46
No. 20 a 30,	75	
Chocolate, No. 1,	\$3	
No. 2,	28 25	
No. 3, box	20	22
dipt,	18	19
spermaceti,	10	scarce t5
Cheese, American,	60	65
Fish, eod, dry qtl.	3 50	
herrings, Susquenannan, Dut. 1	1.2 50 6	new 3
mackarel, No. 1 a 3 - shad, trimmed, -	7 75	7 87
Flour, superfine,	5 50	6
fine, DDI.	5 4 50	5 50 5
middlings,	4 α	4 25
Flaxseed, rough, cask	none.	
cleaned, Dush	do do	
Flax, - 10. Hides, dryed,	12	15
Hogs lard,	12	13
Leather, soal,	25 45	30 50
Molasses, Havana, gal. New Orleans, -	50	60
sugar house,	1	
Oil, spermaceti, gal.	1 50 18 a	19
PORK, mess or 1st quality, - bbl. prime 2d do	15 α	16
cargo 3d do	14 α	15
Plaster, - fon bbl.	5 1 75	
Rice, lb.	6	
SPIRITS, Brandy, French, 4th proofgal.	2	2 50
peach, 4th proof	1 25 75	1 50
apple, 1st proof Gin, Holland, 1st proof	1 25	1 50
do. 4th proof	E A	
do. N. England	50 1 50	2 60
Lum, Jamaica, American, 1st proof	50	66
Whiskey, 1st proof	35	
Soar, American, white, lb.	18	20 12
Sugars, Havana, white,	19	
brown, N. Orleans, -	11 25	12
loaf, lb.	20	
Salt, St. Ubes, bn.	70	
Liverpool, ground,	75 12	
Shot, all sizes, Ib. TOBACCO, Virginia fat, cwt.	7	ĺ
do. middlings,	6 50	
Rappahannock,	5 6 50	5 50 7 50
Kentucky, - small twist, manufactured, lb.	25	37
pound do	50	
TEAS, Bohca, lb.	63 75	
Souchong, lb.   Hyson Skin	75	a 150
Young Hyson,	1 25	
Imperial,	1 75	1
WOOL, Mcrino, clean, unwashed, -	40	
crossed, clean,	65	1
unwashed, - common country, clean,	35	1
unwashed	25	
skinner's,	33	]

## POETRY.

TO A FLY, Taken out of a Bowl of Punch.

All poor intoxicated little knave, Now senseless, floating on the fragrant wave; Why not content the cakes alone to munch? Dearly thou pay'st for buzzing round the bowl; Last to the world, thou busy sweet lipp'd soul-Thus death as well as pleasure dwells with Punch.

Now let me take thee out, and moralize-Thus 'tis with mortals as it is with flies,

Forever hankering after pleasure's cup: Though fate with all his legions be at hand, The beasts, the draught of Circe can't withstand, But in goes every nose-they must, will sup.

Mad are the passions, as a colt untam'd! When Prudence mounts their backs, to ride them mild.

They fling, they snort, they, foam, they rise inflam'd, Insisting on their own sole will so wild.

Gadsbud! my buzzing friend, thou art not dead; The Fates so kind, have not yet snipp'd thy thread-By Heaven's thou mov'st a leg, and now its brother, And kicking, lo, again thou mov'st another!

And now thy little drunken eyes unclose; And now thou feelest for thy little nose,

And finding it, thou rubbest thy two hands; Much as to say, 'I'm glad I'm here again'— And well mays't thou rejoice—'tis very plain, That near wert thou to Death's unsocial lands.

And now thou rollest on thy back about, Happy to find thyself alive, no doubt-

Now turnest-on the table making rings, Now crawling forming a wet track, Now shaking the rich liquor from thy back,

Now flutt'ring nectar from thy silken wings: Now standing on thy head thy strength to find, And poking out thy small, long legs behind; And now thy pinions dost thou briskly ply; Preparing now to leave me-farewell, Fly!

Go join thy brothers on you sunny board, And rapture to thy family afford-

There wilt thou meet a mistress or a wife, That saw thee drunk, drop senseless in the stream; Who gave perhaps, the wide-resounding scream, And now sits greaning for thy precious life.

Yes go and carry comfort to thy friends, And wisely tell them thy imprudence ends. Let buns and sugar for the future charm;

These will delight, and feed, and work no harm-Whilst Punch, the grinning merry imp of sin, Invites th' unwary wand'rer to a kiss,

Smiles in his face as though he meant him bliss, Then, like an alligator drags him in.

Agency for Patent and Copy Rights at stone in a three knot current. It is easily applied to the Seat of Government.

THE Subscriber respectfully informs Inventors and Authors in every section of the Union, that by suggestion of several scientific gentlemen, he has been induced to open an office of agency for Patent and Com Rights; wherein will be transacted, for a reasonable compensation, all business requisite for obtaining Pa tents and other official documents from the Patent Office, and for securing to authors and proprietors, copyrights for books, maps, &c.

Drawings of Machines, and specifications of their construction, will be carefully made out at this office, which will possess the most ample legal assistance, as well from the books of laws and decisions, as from the obliging aid of the enlightened gentleman at the head

of the Patent Office.

The heavy expence incurred by ingenious men who have bitherto thought it necessary to come to Washing ton, in order to take out their patents, will henceforward be obviated, if they avail themselves of this Agency.

By the act for the encouragement of learning, it is made indispensible, in order to secure a copy right, that a copy of the book, map or chart intended to be secured, be delivered at the Department of State, to be deposited in the Patent office, within six months from the publication of the work. Authors and publishers are deeply interested in the strict compliance with this provision of the law, as any deviation from it will render their works liable to encroachments, without the least legal remedy.

Authors and Inventors are invited to send their orders to this agency; and may ship their books, models. &c. to Alexandria, Georgetown or Washington, (giving notice thereof by mail) whereby without farther trouble to themselves, the necessary business will be correctly transacted, and their certificates and patents forwarded with the least possible delay.

SALES OF PATENT COPY RIGHTS.

This agency will also afford to INVENTORS and AU-THORS an opportunity of disposing of their RIGHTS, to individuals; as it is the intention of the subscriber, to open a book for the purpose of affording applicants, every information in relation to the Rights which may be entrusted to him for disposal. It will therefore be necessary that those who employ him furnish him with adequate descriptions and instructions as to terms, &c. Individuals wishing to purchase anyof the patented inventions or copy right books of the United States, will find this agency a convenient medium; and the strictest attention will be paid to their applications.
WILLIAM BLAGROVE.

Washington City 19, 1819.

Washington City, March, 1819.

I cordially congratulate that valuable class of citizens, the Inventors in the United States, on the establisment of the above montioned Agency for Patentees; and more especially from the consideration that it is undertaken by a gentleman so eminently qualified for its duties as Mr. Blagrove.

BENJAMIN DEARBORN,

of Boston, Patentee Publishers of News-Papers, friendly to Inventors and Authors, may benefit them by giving the above a few insertions.

VALUABLE PATENT RIGHT.

The Subscriber is authorised to dispose of rights for the states of Virginia and Maryland, and the district of Columbia, to use Deming's Horizontal Wheel for tide and wind mills, and his perpendicular Wheel for steam boats, both of which possess very superior advantages to any other water wheel hitherto invented. The Horizontal Wheel supersades the necessity of building dams and flooms, where a sufficient current can be obtained; and if the current, as in the ebbing and flowing of the sca, sets sometimes in one direction and sometimes in the other, a simple winch will instantly adjust the wheel to it, and cause it to continue turning in one direction. The expense of constructing this wheel will not exceed one hundred and thirty dollars. A six foot wheel is capable of turning two or three run of Steam Boats, and from the direction of the floats, on entering and emerging from the water, greatly diminishes the loss of power, so apparent in the common wheel; giving thereby, at a fair calculation, an increase of one half to the usual velocity.

For wind mills it is believed to possess double the

power of any other Wind Mill now in use.

Every necessary information will be furnished to those who purchase rights, and further explanations will be promptly given to applicants inclined to avail themselves of this truly valuable invention.

Applications by mail must be post paid.

W BLAGROV, Office of Agency for Patent and Copy Rights. Washington City, Sept. 1, 1819.

PRINTED EVERY FRIDAY AT \$4 PER ANN.

FOR JOHN S. SKINNER, EDITOR,

At the south-west corner of Market and South streets,

BALTIMORE.

# AMERICAN FARMER.

# rural economy, internal improvements, news, prices current.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIRG.

Vol. 1.

## BALTIMORE, FRIDAY, SEPTEMBER 17, 1819.

Num. 25.

## AGRICULTURE.

FROM THE ALBANY ARGUS.

## Treatise on Agriculture.

SECTION, VI.

Of MANURES-their management and application. [Continued from No. 24-p. 187.]

The preceding remarks are confined to stable masures. What remains to be said, applies to lime, marle, vegetable ashes, ashes of earth, and green

crops ploughed into the ground.

It will be remembered, that the action of lime, as a manure, is owing to its causticity, or power of dissolving animal or vegetable substances; and to its quality of absorbing carbonic acid from the atmos phere. These properties render it peculiarly useful in composts, or mixtures of dung, peat, and earth; a mass of which, disposed in alternate layers is no doubt, the perfection of this branch of husbandry It is also applied without any accessary, and with great advantage, to marshy grounds, to those having in them the remains of shell hish,† to natural meadows, and to all soils, abounding in vegetable mould. On those of a different character, it must be caut.ously used as to quantity, and indeed on any soil an excess of it, will completely destroy the fertilizing principle; an effect constantly observed near mortar

The time of using it, is liable to less uncertainty. On wheat, it should be sown, as soon as the grain shows itself, and on meadows, late in the fall and at-

ter the cattle have been turned off.

Marl, heing a compound of clay and lime, has the properties of the latter and produces similar effects, but in a smaller degree. Hence it is, that the quantity of it given to the acre, is much greater than that of lime The English practice, is to spread it over a field to the depth of three or four inches. This is done late in the fall to the end, that frost and rain may break down and pulverize it.

The properties of ashes, whether derived from the combustion of animals, of vegetables, or fossile coal, are nearly the same; and resemble those of time and marl. They powerfully attract and hold moisture and carbonic acid, and they hasten the decomposition of stable monures, or other vegetable or animal product. Their action is most favorable on wet and cold soils, and as a top dressing to natural meadows

and turnip crops.

The practice of paring and burning the surface of the earth, has been much used and warmly recommended by the frish; and, in their land of bogs, as in the marshes of Holland, where infertility arises from excess of vegetable matter, it may be useful; but to burn the surfaces of sandy, gravelly, or even of dry clay soils, would be to lose sight of all sound

Soils in general, may be divided into two kinds, sand and clay. The defect of the one, is want of cohesion between its parts; that of the other, an excessive or superabundant cohesion. But vegetable matter is, as we have seen, a remedy for both; and to accumulate this, is the constant endeavour of every enlightened agriculturist. Yet are we advised to destroy this vegetable matter by fire, and to substitute for it a small portion of ashes, as more favorable to vegetation, than the soil itself! But in what will these ashes differ from those found in our chimneys,

cepting that they may possess somewhat more alkaline salt; (\*) a circumstance which, if the subsoil be not charged with oily and animal matter will be more miurous than useful.

But, besides the consideration of getting so little, and that little of such equivocal character and use, what do we lose by the process? If we approach these little kilos, we find them emitting a black smoke noses are assailed by some stimulating and ammoniacal matter, which is fast escaping, and which so far alters the atmospheric air in the neighbourhood, as to this is the animal, only and gaseous matter, essential to the vegetable, and highly important to vegetation? is also more expensive. Of this tribe, the yellow re ckIt may be, that the ashes obtained, may give one or ing (lathyrus pratensis) is the species to be preferred. two good crops of turnips; but even the advocates of ed from puring and burning, especially towards the mute) feeding them off in the winter and on the field, close if their leases." (||)

Clay burning, is a different operation, and made with different views; not for the production of ashes or salts, which may operate chemically, but merely (by the application of heat) to after the texture of the soil; to give to it air, artificial division and porosity; to render what was cold, warm, what was wet, dry; what was compact, granular. But a small degree of heat, will not produce these effects; for, unlike the stems and roots of plants, clay is not itself combustible; and to bring it to the brick state, the heat applied, must be long continued and great; hence it follows, that the practice becomes objectionable, on the score of expense, and the more so, as burnt clay has no possible advantage over the much cheaper substances of sand, gravel and pounded lime stone. The operation of all is merely mechanical, and exactly

in proportion to the quantity used.

Our partiality for green crops, ploughed into the ground as manure, has been sufficiently indicated, and it is now only necessary, that we mention the plants best calculated for this purpose. At the head of these we place buckwheat, as well on account of cheupness as effect; cheapness, because the price of the seed (which is the only additional expense) is below consideration; and effect, because this plant, while growing, (from its umbrageous form) is a great improver of the soil both by stifling weeds and preventing evaporation; and when ploughed into the ground, none decomposes more rapidly, nor has any a more powerful effect, in keeping the earth loose and open to the action of light, heat, air and moisture, all of which are indispensi-ble to vegetation.—"I know no plant, (says Rozier, the great French agriculturist) that furnishes a better manure, or which is sooner reduced to vegetable mould, than buckwheat. When cultivated with this view, the usual quantity of seed ought to be increased, and the time of sowing hastened, so as to enable you to have two crops of manure the same season, and before the sowing of wheat.

The lupin [one of the leguminous family] has been long and profitably employed as a manure in spain, Italy and the southern provinces of France. Columella directs, that "it be sown in September, about the

. De Saussure's experiments prove, that the stems oftrees [other things being equal] produce less of this salt than the branches; the branches less than the twigs; and the twigs less than the leaves. M Perthuys has formed a table of the relative alkaline products of plants and trees. By this table it appears that the leaves and stems of Indian corn give by the quintal 8 pounds 13 ounces, the oak 1 lb. 5 oz. the pine 9 lbs. 5 oz.

|| See Cobbett, part second, 168, " Year's residence in the U. S."

and of which enough may be had? In nothing, ex requirox so that it may attain before winter, a growth, that will enable it to resist wet and frosty weather, which it particularly dreads," I need not remark, that these directions are not calculated for this climate, and that the seed time for the lupin here is the 20th of May. The properties which recommend it as a minure, are nearly the same as those which belong to buckwheat. It is a quick grower, and has many and large succulent leaves. While growing, it sunsists which cannot be entirely consumed. Our eyes and principally upon the air, and when buried, decompose es entirely and rapidly.

The pea tribe has the next place in this list; but though not better adapted to the end than buckwheat render it difficult of respiration. Need we add, that or hipms, is more capricious than they, and requires a soil of better staple and more preparation. The seed

Turmps have been cultivated in England with the this practice, admit that "it ruins the land for an age; same view, but the practice has yielded to another and hence it is that in England, tenunts are restrain- and better; (which, however, is not suited to our cli-

For the American Farmer.

#### CHILE WHEAT.

DEAR SIR, I now send you the samples of Chile wheat, which were promised in my last .- You will perceive that the grain is neither as large. plamp or white as the imported seed; but whether the difference arises from natural or adventitious causes, another year's experience will better determine.-Being a tobacco planter, I have never paid much attention to the raising of small grain; but I think it highly probable that none of our country wheat seeded under the same disadvantages as the parcel from which these specimens have been produced, would have succeeded as well.

It so happened that I did not receive your letter containing I think about a wine glass full of the seed imported by Judge Bland, until late in December, and owing to the frosts which in that month were unusually severe I did not sow it until January. Early in March it made its appearance above ground, yet looked rather unpromising and never did acquire the healthy appearance of my crop wheat, which this season was remarkably fine. Nevertheless, in its increase it has far exceeded my crop wheat, and indeed, the utmost expectation of all who saw it; for from about half a gill's sowing, I have just measured eleven pints and a half of clean nice wheat. This is an astonishing increase, eightyfive for one; but it must be remarked, that every head was cautiously cut off with my pen-knife, and as carefully rubbed out by the hand; so, that I am persuaded, there has not been a loss of fifty grains in my whole crop .- You will observe, that I have sent you several distinct parcels ; with discriminating memoranda attached to each .- These have all been produced from the small stock you sent me, and have been preserved, separately, in in order to ascertain, by another seeding, whether they are degenerate shoots or sorts of grain differing from the predominant kind, which answers MR. SEYMOUR'S description of it, in a letter published in the American Farmer of the 13th of August. On the stem the Chile wheat has the ap-

<sup>\*</sup> These might be formed in narrow limits, inclining from the stable.

<sup>†</sup> There is much of this description of land on the bays and creeks of the Chesapeake.

pearance of two heads growing together, and notwithstanding many of the top grains did not fill, it still had a much greater and better average number of grains than my crop wheat, -as soon as I can procure suitable scales and weights, I shall make some experiments to ascertain its weight, and will advise you of the result .-- Mr. Dennis Boyd of this county had a small quantity of the seed, sent to him for trial, which he sowed in drills in his garden, and after it came up, cultivated it with the hoe .- I saw it frequently whilst it was growing and never in my life saw any wheat so luxuriantunfortunately, however, when the ears began to shoot, the rose bugs attacked it with desolating fary, and I believe Mr. Boyd's crop, which promised much better than mine, has not turned out as well. - With the exception of the red chaff bearded wheat, which is the kind we make altogether with us, I do not recollect ever to have seen any so little tenacious of the husk or chaff as the Chile wheat. I shall reserve one quart of it to sow in the spring, although I do not think it will answer as a spring grain, and the balance of my eleven pints and a half's all sow this fall at different times, say, the middle of September and the first and middle of October. I had almost forgotten to mention, that notwithstanding the spring drought, and the entire absence of all disease from my crop wheat, the Chile wheat was all more or less affected by the rust, not enough so as to injure it materially, but quite sufficient to shew its liability to that complaint

For curiosity sake I send you an unshelled ear of harley, several grains of which came up amongst the Chile wheat, and were imported with it .- As it appeared to thrive well, I am disposed to think it may e cultivated to advantage here.- I shall make trial of what I have; this as well as the wheat may be a great acquisition to our country : but from the limited range of the experiments yet made, it is premature, I think, to conclude an opinion; but let those who have the seed, make a full and diversified trial of it, and we shall then know how far the community ought to be obliged to the meritorious citizen, who, in the midst of his public duties, had the p ovidence to bring it home for experiment, in the climate and soil of his own country.

> Very respectfully, ROBERT W. BOWIE.

Mataponi, Sep. 5, 1819.

FOR THE AMERICAN FARMER.

## THE SHOVEL PLOUGH.

Believing that the utility of this article, (in coltivating the soil) is not generally so well known as would be best for the benefit of the community, especially, after having understood that there are some sections of this country, and such too, as are in a good state of cultivation, where the shovel plough is not used at all, I have been induced to offer some remarks, which from my experience and observation, I have had an opportuity of making

of culture

the working of the plough; some work very well, ing the crap. is to make the beam about four and a half feet more than from two to three or four inches, allong, the legg (or stock, on the lower end of which though so shallow, the shovel being wide, will the shovel is fastened, and this is performed in difform quite a ridge or hill about the corn, whilst the ferent ways. I saw one that I suppose had been last furrow makes quite a large opening in the the shovel, by means of mortice and tenon, a strong round put through the legg (or stock) cross a construction as can well be come at.

under two heads; 1st, to stir, or pulverize the ground; this will include all that portion of labour necessary in preparing land for the seed (that is where it can be better effected with the tond this placeties to pattern to patte shovel, than barshare,) using the harrow when every clod is completely reduced, leaving the whole both on the construction, use, and manner of using that article I have findeavoured to learn where and when that article was first used, and who was its constructor; but this I could not ascertain I land, and such as lays rolling or inclined (of course sharpened and steeled, and fastened over the top of land, and such as lays rolling or inclined (of course sharpened and steeled, and fastened over the top of land, and such as lays rolling or inclined (of course sharpened and steeled, and fastened over the top of land, and such as lays rolling or inclined (of course sharpened and steeled, and fastened over the top of uppose it to have been constructed by some plan- very liable to wash, the shovel plough, is, in my the frame by means of a cap to fit the screw, cut in the

Maryland or Virginia,) it being so simple, and have ever since seen tried. In the culture of corn cheap, and particularly well adapted to their mode especially, the harrow has its advocates, in all its variety, such as the square tooth, the flat tooth, Its construction, with but a few exceptions, so &c. all of which, when used, amount to about the far as I have observed, the shovel (or part that same thing; that is, the ground has been harrow-works in the ground) has been made of plated iron, ed only, instead of being ploughed; a mode of and from twelve to sixteen inches in width, of dif-culture, which in my opinion, would not satisfy ferent lengths according to convenience, or fan-lany enterprising farmer. Another article introcr, and bent to fancy, also, at least as nearly as duced latterly, called the Cultivator, has its advocould be effected; but this operation being attend-cates also, and perhaps in some situations, it may ed with some difficulty, it was not always done so inswer a very good purpose; but in such as above complete as was desirable. I have seen some made alluded to, I have been told, (which accords exwith a nib on the point, to which there was a coul-actly with my opinion) that they either do not work ter attached; this construction was designed, and the ground deep enough, or they work the horse too used in working land on which there was a soud hard. 2d In seeding in such situations as above (or sward.) The manner of stocking the shovel alluded to, when the ground is well rotted, with a plough, is much the same in principle, but great narrow shovel, it is my opinion, that seeding can difference in the size and appearance: to give the be effected as speedily and more perfectly than any shovel a proper inclination, requires more care and other way that I have seen tried. That process attention than is generally given to that part of leaves the ground just about as uneven as is nethe work, for on that, in a great measure, depends cessary in order to prevent the winter form injur-

easy both for the horse and ploughnan, while The mode of using the Shovel Plough, with but others work exceedingly bad, hard for the horse and a small exception, so far as I can learn, has been ploughnan, and when the work is done, it is not to nearly the same; the shovel being made so very such perfection as it ought to be. I have thought wide, renders it impossible to work the ground that the proportion most convenient for the stock as deep as is necessary, I think not exceeding made a long time, which had a socket formed by middle or between the rows; the consequence is cutting from each edge, in leaving about four in- that the ridge, or hill, has a considerable tendency ches in the middle, and the same distance from the to conduct the water away from about the roots of top; turning these wings back, forms a socket in the corn, and getting into the large middle furrow, which the stock is fixed, having a hole made about finds its way out of the field, thus oftentimes, one inch below the socket, through which the brace quite a refreshing shower will pass off from a coru rod passes, which secures the shovel on the stock, held, especially if the ground lies much inclined, This rod passing through the beam at a consideral without doing the crop much good. Again, a very ble angle, and secured by a screw, prevents the heavy shower, where the ground is worked so plough from straining out of shape; others have shallow and fine, will fill it so full of water, that sockers made of a bar of Iron bent and rivetted on, nearly al will run off together. This is a grievthrough which the leg is passed, and then it is ne-lous circumstance; first, it impoverishes the ground cessary to use wedges also, in order to secure the and renders it more subject to drought, and diffishovelon. Some are put on by means of two screw cult to work; secondly, the crop is left in disbolts, but I believe one, if well applied, is entirely tress; for where the ground lies inclined, the sufficient, if the top of the shovel is let right against pulverized earth washes off, and where it lies low a shoulder made in the leg for that purpose, the and flat, it washes on, so that the crop suffers in beam to be let into the leg about ten inches above either situation. Believing this to be the most

<sup>\*</sup> The remarks of our respected correspondent, wise about nineteeu inches long, and, eight above the beam, on the ends of which the handles are long bis a tack on one of our favorite implements, the fastened about sixteen inches from the end, that the CULTIVATOR, which if he has not absolutely conplonghinan takes hold of; the other end fastened to demined, he has at least "dain'd with faint praise." the beam, being about four feet in length, the tim- Under various circumstances, we look upon the cultithe beam, being about four feet in length, the fim-ber being proportioned according to the strength ap-hands of the skilful farmer. The case, wherein we plied, will, I think, be found about as convenient have ourselves used it with admirable advantage and effect, is for pulverising stiff cloddy ground.-It is of-The use of the Shovel Plough, I would divide ten found impracticable to pulverise such land comser, (perhaps in the lower parts of the state of opinion, vastly preferable to any other tool that I top of each tooth, so that they may be let down or raised to run deep or shallow.

cummon mode of using the Shovel Plough, I do not wonder at all, that in some sections of the country, it should be so little regarded as an useful article, and in others not used at all, none of whose adventurers thinking them worth introducing into their own respective neighbourhoods, having seen their effects as above described, they of course could not recommend their use.

From experience and observation, I have reason to belive, that there has been some improvements made in the construction of the Shovel Plough, which is worthy of the attention of those, that are in the habit of using them, and that also would promote their introduction, where they have not been used at all; that is, just simply to reduce their width, make them narrower; instead of sixteen inches in width, make them only six, and then endeavour to work the ground as much deeper, as the same strength applied is able to effect. It will be found, that the difference in depth, will be very considerable, whilst in width it will be less than could well be imagined. I think that in a tolerable wide row of corn, it would only need one furrow more, and then the ground would be worked so much more effectually, that it would be less liable to drought, less liable to wash, more thoroughly cleansed of weeds and trash and, above all, producing a much better crop, besides leaving the land much better prepared for the after crop of small grain and clover (or grass.) In recommending such a material alteration, I am quite aware of the strength and force of argument necessary, in order to convince those who have been brought up in the habit of using them in their usual form, of their being made any better : here I can speak from experience also; for when I first had a shovel made for a plough, I thought there mig t be as much convenience in using the middle size, and had mine made fourteen inches in width, and used such for several years : but becoming dissatisfied with the effects, I inquired for a reloady, and was told that some of my acquaintances were using those that were much narrower, than some had been used, that were only four and an half inches wide, and that the operation was to good satisfaction, but it was in very stony ground. However, I gave it but little credit, being satisfied in my mind, that a any situation But after some thoughts on the subject, I had one made only ten incres wide, and used it-was much better pleased with it, than any I had seen before I then concluded to try one only six nohes wide, which, when put in operation, pleased me very well, and such I have continued to use since, and like them much the best, either for pulverising the ground, tending a crop. or seeding in grain.

## Extracts from a Compendious Dictionary of the Veterinary Art.

[Continued from No. 24-p. 188.]

BACK, GALLED. Accidents of this kind ought never to occur, because it is almost always a consequence of mattention in those who have the management of Bellanona, or Deadly Night shade. A powerful narcotic, rarely used in veterinary practice, except ken, therefore, it is necessary to examine carefully the saddle or harness, and repeat the examination from has the extraordinary power of dilating in a considertime to time until the journey is finished. When any swelling or tenderness is observed about the horse's back or shoulder, let it be frequently bathed with the following lotion:

Goular l's Extract, half an ounce. Vinegar, four ounces. Water, one pint .- Mix.

If the skin has been so bruised as to cause a sitfast, or hard dark-coloured scab, let it be rubbed twice or three times a day with camphorated mercurial ointment, until it is loosened sufficiently to be taken off; some force is generally required to effect this, and the knife is often found necessary to separate some parts. When the sitfast is removed, dress the sore twice or three times with a mixture of burnt alum and red precipitate, and afterward with the following outment:

Saturine ointment, four ounces.

Finely powdered alum, one ounce.-Mix.

No application can be of service in galled back, if the pressure which originally produced it is continued; in such cases troublesome abscesses may form, and it is often from such cruel negligence that fistula in the withers is produced.

BACK-RARING. An operation so called by farriers, which consist in introducing the hand into the horse's fundament, to draw off any hard dong that may be in the gut. The operation is sometimes required to asertain the state of the dung, in order to determine whether laxative medicine is necessary or not. the bladder is distended with urine, it may be distinctly felt in this way. See Bludder, Diseases of.

BALL. The best form in which medicine can be given to the horse. A little practice will enable the room to give balls without the assistance of the balling-iron; though there are cases, perhaps in which this instrument is necessary. Balls, unless composed of very heavy ingredients, such as antimony, should not exceed one ounce and a half in weight, and their irm should be more oblong than that of an egg. up is usually directed for forming powders into balls, but molasses will do just as well. Powders that do not cohere readily require strong mucilage for this purpose; and resinous powders require balsams, turpentin's, or soap

When many balls are made at one time, great care should be taken in mixing the powders before the mass is formed, that each ball may contain an equal proportion of the several ingredients. - The prescriptions for cordial, alterative, purgative, and other balls,

will be found under their respective heads.

BAYDAGE. Strips of linen or flainel about three or four laches wide. They are generally employed for habitual swelling of the ligs and sometimes as a olliative in windgalls, and weakness of the fetlock unts. The length of the bandage must be delermed by the part to which it is to be applied; for the legs at ought not to be less than two yards. The fficacy of bandages depends much upon their being properly applied; the first turn of the bandage should be downward, and immediately under the fetlock shovel of that width would not be worth having in joint; from thence, passing obliquely upward over the front of the joint, it is brought down again in the form of a figure of eight, and then continued up the ieg A bandage should be moderately tight, so as to support the joint, without impeding the circulation, and causing swelling above the bandage; it should be so applied also, as to press equally on every part. Adhesive plasters are sometimes employed as bundages. See Charges.

BATHIME. Both cold and warm bathing have been tried without effect in locked jaw. Cold bathing, or making a horse swim in a river or in salt-water, has been recommended as a remedy in shoulder strain. but I have never known it do any good. It may be worth while however to give it a trial in lammess that have resisted other remdies, and are supposed to depend on some injury of the shoulder; I have heard that in one instance it was employed with success by Mr Morecoft in a case of looked jaw.

BAY BERRIES are sometimes used in borse medicine as an aromatic stimulant to two ounces. They are an ingredient in the relebrated stomachic powder of farriers named Diapent.

able degree, when a small quantity is placed between or rather under the lids. See Eye.

BILE, or GALL A saponaceous dark-coloured fluid of an intensely bitter taste : it is secreted or formed pointed to procure signatures.

by the liver, from which it is conveyed by the binary duct to the intestines. The bile serves as a constant stimulus to the intestines, thereby promoting in them that kind of motion termed peristaltic, by which the useless parts of the food are propelled through them and evacuated. See Liver, Digestion, Nutrition.

Bishopping. When artificial marks are made in the horse's teeth, to make him appear younger than he really is, he is said to be hishopped, and the operaration is termed bishopping; it consists in making a small orifice with a graver in each of the corner teeth, resembling in situation and form as nearly as possible the natural marks, which are found in these teeth when a horse is six, or between six and seven years old : they are then touched with a small hot iron to imitate the brown colour of the natural mark. However dexterously this operation may be performed. it is easily discovered by a person accustomed to examine the teeth of borses: and such as have not had this advantage, may observe a want of correspondence in the state of the tushes, or the marks of the upper teeth; and if the horse's age is considerable, it may be known by his general appearence, by gray hairs over the eyes and about the forehead, by the teeth being much longer than in young horses, and approaching more to the horizontal position. In black horses, I have known the grey hairs concealed by means of black powder, which was discovered by passing the hand over the eyes. See Age.

Bites, Venomous. The bite of a viper is sometimes attended, not only with considerable swelling about the wounded part, but with symptons of fever or general indisposition also. A great variety of reme-dies have been prescribed by writers on farriery, beginning with old Mascal, whose book is dated 1633. He advises, after bleeding in the roof of the mouth, to "take a young cock, (some take but a pigeon,) and cleaving it in the midst, clap it hot to the wound." The renowned Gervase Markham advises the same; and adds, some farriers apply hogs' dung to the part. tAs soon as the accident is perceived, a moderate quan-aity of blood is to be drawn from the neck vein, about one ounce of nitre given morning and evening, and the swollen parts almost constantly fomented with t decoction of bitter herbs. Should the swelling con-linue, let the part be well rubbed with the following

iniment.

Soap liniment two ounces. Olive oil, one nunce and a half-Liquid aminonia, half an onnce.-Mix.

Solleysel informs us, that "there are certain venomous creatures resembling mice, which breed in rotten straw, the bitings of which are fatal to horses and dogs, and when cats eat them they die in a kind of consumption." These formidable mice are termed Shrew or Shrove Mice by old farriers. Mr. John Lawrence affirms he has " often seen them; that they have a snout like a hog, that their bite is veno nous, and though a cat will kill, he never eats them."

[To be continued]

FROM THE AURORA.

### AMERICAN MANUFACTURES.

An adjourned meeting of the citizens of the city and county of Philadelphia, friendly to American manufactures, was held in the State House yard, on Saturday afternoon, the fourth of September:-

MATHEW LAWLER, Esq. in the chair. CONDY RAGUET. Secretary.

The minutes of the last meeting having been read, the committee appointed to prepare a memorial to congress, reported the same, which, having been read, was unanimously adopted. Whereupon, it was Resolved, That one thousand copies of the same be printed for distribution; that the printers of newspapers throughout the United States he requested to re-publish it; and that a committee of five persons, from each ward of the city, and each district of the county, be ap-

Resolved, That the chairman appoint a committee of seven persons, to make the appointments for the ward and district committees.

This duty having been performed, the committee appointed to procure information reative to the state of the manufactures in the city and

precincts, made a report.

The committee appointed on the 21st of August, to report a plan for the formation of a Society or the promotion of American Manufactures, reported the following:

Constitution of the Pennsylvania Society for the Encouragement of American Manufactures.

#### PREAMBLE.

The wealth of a nation is derived from the labour of the people who compose it; and, as the general revenue will be great or small according to the quantity of produ tive industry that is set in motion, it is of the first importance, that the public prosperity be not suffered to languish for the want of timely support Amongst the means of producing the most profitable results, the protection of our declining manuf ctures with the steady employment of that portion of our popultaion, who, by their habits and dispositions, are unquadified for agricultural or commercial pursuits, stands conspicuous. But manufactures to withstand the forced competition of foreign countries, must be pa-tronized, in there intancy, by the laws or by the pa-triotic feelings of the people; and perhaps no better mode is presented, to give them duration and satability, than a voluntary engagement, on the part of our citizens, to give a preference in their expenditures, to the products of each other's labour. By such a measure, they will strengthen the bonds of the social compact render their country truly independent; and by standing in the mutual relation of producers and consumers. they can apportion, with a regularity hitherto impractioable, the supply to the demand, and increace them both to any reasonable extent, which their comforts

With the view of hastening the adoption of a policy, upon which the destinies of a gr at portion of our fellow citizens must hereafter depend, and in anticipation of measures, which, it is confidently hoped, will be pursued at no distant day, by the government, a number of the citizens of the city and county of Philadelphia have formed an association, which has adopted

for its government, the following constitution:
Article I This association shall be called "The Pennsylvania Society for the Encouragement of American Manufactures;" and shall consist of such persons residing within the state of Pennsylvania, as shall subscribe these articles, and pay the Treasurer

the sum of fifty cents.

Art. It. The officers of the Society shall be a President, two Vice-Presidents, a Treasurer, and Secretary, who shall be elected annually on the first Monday in the month of October, between the hours of four an eight, P. M. at the county court-house, or such other place as shall be designated by the Society. There shall also be elected, at the same time and place, a standing committee, to consist of thirty members, who, in conjunction with the officers above mentioned, shall constitute " A Board of Manufactures," with power to appoint from their number, committees for the purpose of correspondence, for the collection of information, and for such other objects as shall be cal culated to promote the intentions of the association.

Art 111 The stated meetings of the Society shall be held quarterly, viz: on the first Monday of the months of January, April, July, and October, at such places as shall be established by resolution. Special meetings shall also be called by the President, whenever he may deem it expedient, or when requested to do so by any twelve members. Three days' notice for the neetings shall be given in at least four daily pa-Fifteen members shall constitute a quorum.

Act IV. Every member of this association pledges himself to give a preference to American manufacwhenever they can be procured, of a good quality and

tures, over the manufactures of any foreign nation, at a fair price.

Art. V. The Board of Manufactures shall exhibit to the Society, whenever called upon so to do, after reasonable notice, a statement of their proceedings, together with such other information, as may be required, relative to the objects of the association.

Art. Vt. No money shall be drawn from the treasury, but hy an order of the presiding officer of a general meeting, in conformity to a resolution of such

meeting.

Art. VII. The Society may establish by laws for its government, and may make any alteration or amendment to this constitution, by the concurrence of a majority of the members present at a stated meeting; such alterations or amendments having been proposed at a previous stated meeting.

Whereupon it was, on motion, Resolved, That the same be adopted, and that the ward and district committees appointed to procure sign tures to the memorial, he also instructed to obtain

subscribers to the same.

Resolved, That the thanks of this meeting be presented to the chairman and secretary, for their attention to the duties of their respective offices; and to the committees appointed at the last meet ing, respectively, for the zeal and ability with which they have attended to the duties assigned

Resolved, That the proceedings of this meeting be published in all the papers of the city and

county of Philadelphia.

Resolved. That this meeting adjourn, to meet at the county court house, on Saturday the 25th September, at 4 o'clock, P. M to hear the furtheir report of the committee appointed to procure information relative to the state of manufactures.

> MATHEW LAWLER, Chairman. CONDY RAGUET, Secretary.

FROM THE MASSACHUSETTS AGRICULTURAL JOURNAL.

#### A PROFITABLE DAIRY.

ft may appear to some of our readers a little singular, hat we should have requested major Wheeler to furnish an account of the produce of his cows for publication Those who have seen, in our last number, the account of the produce of an English cow, amounting to 600 lns. of butter in a year, and of the Oakes, or Danvers cow, whose produce was > 0, may be disposed to think little of Mr Wheeler's statement But the trustees thought it would be of more consequence, and would be more likely to produce a spirit of emulation, to publish an account of a moderate experiment, within the reach of every farmer, than merely to exhibit a few examples of most uncommon occurrences. The cases above referred to, were almost prodigies, and were inserted rather to show what very extraordinary cows, with still more extraordinary feed, are capable of producing. They have some tendency to prove the importance of getting a good hreed of cows, and of being more liberal in the manner of feeding them.

Mr. Wheeler's case is of another sort. It is an exhibition of profit from the ordinary mode of treatment, except that Mr Wheeler app ars to have been uncommonly attentive to manuring his pasture land, having for many years, successively diessed it with plaster of

Paris.

To shew that Mr. Wheeler's product is uncommon for our country, we shall here insert the answers which have been repeatedly made to the Society's question How much butter is anually made from a cow, and how much skim-milk cheese from the same cow

From Brooklyn the answer was 70 pounds of butter and 50 pounds of akim-milk cheese.

From the Middlesex and Sturbridge Societies, 70 reight of butter, and as much weight of cheese.

From the Shrewsbury U. Agricultural Society, that a medium cow will give 1.00 pounds of butter, and 150 weight of skim-milk cheeser

From Newbury Agricultural Society, about 120 weight of each.

From Vassalborough Agricultural Society, about 109 weight of butter.

The Rev Mr. Packard of Mariborough, made an answer to the question, which we wish was pasted up in every dairy in the state :-" The last year, said he (1799) hree cows in this town produced 278 pounds of butter. If their cilves had been taken from them at a week old, they would have made 451 pounds of butter. Those three cows were a more productive dairy than six usually are, with ordinary feed. Farmers egregiously mistake, when they overstock their farms. Were dairies always estimated by the pails of milk they produced. instead of the number of cows, many farmer's wives, instead of asking their husbands to buy another com, would urge him to sell two to enrich the dairy?"

In this sentiment the Trustees are fully of accord with Mr Packard; and they earnestly desire to see the cows better kept, which will soon improve their quality.

It will be seen by this exhibit, that Major Wheeler's product was very far above the average, and well worthy of notice.]

Framingham, December 22, 1817.

DEAR SIR,-Yours of the 18th instant came to hand, wherein you wish information respecting ny dairy. Last spring I had six cows, and the latter end of May I killed off the calves, and sold them at eight dollars and fifty cents each, making 851. The latter end of June, I bought a small cow and calf; after keeping the calf 3 1-2 weeks, sold the calf for ten dollars.

During the months, commencing the latter end of May and ending in November, which is six months, I made 541 1 2 pounds of butter, which our marketter returned, on an average, - 27 cents per pound, which amounts to the sum of

In the same time I made 1300 pounds of skim-milk cheese, which I sold at 6 1-4 cents per pound, making

84 50

254 20

8399 70

Further account. In the month of December, I gather d cream enough to have made fifty weight of hutter; but for want of knowledge in preparing the cream in cold weather, and of much labour lost, could not make it into hatter, and had to make other use of the crea o. The above numher of cows, with one large yoke of oxen, were on about eighteen acres of pasturing until after we had done our having, and the feed had grown from the mowing. The pasture is land where I have pastured for several years, and excepting the two last years, have made free use of plaster, say about three bushels to an acre, three acres of which is low and cold, and produced but little -1 am, &c.

ABNER WHEELER.

R. Sullivan, Esq.

FROM TRE PLOUGH BOY.

## FATTING CATTLE.

Ma. Homespun,

I have lately read an essay of MR. LANDON, of Connecticut, on what he deems the cheapest method of preparing cattle for the stall, the substance of which is here given.

In the winter of 1817 Mr. L. fatted an ox, and a heifer, in a way that he found cheaper than even common keeping. He fatted the heifer first. Her food for the purpose was chopped straw, scalded and seasoned with salt, to which was added a little meal of Indian corn and oats, and a small allowance of oil cake, or boiled flax-seed-the whole mixed up so as to form a mash. Of this about three pecks was given

at a time. In fatting the heifer, she only eat about a bushel of boiled flax-seed. Some boiled hav was also The ox was afterwards fatted in pretty given her much the same manner, as nearly as we are able to understand the report of the two cases; for Mr. L. appears to have been more of an adept in fatting, than in describing the manner with clearness and precision. According to this account, however, it ap pears that his profits in pursuing this mode was very uncommon, and he says that the fatting of these cat the afforded him more clear profit, than he had derived from all the cattle he had ever before fatted. It would seem, indeed, that he considerably more than doubled the price of his cattle in fatting them, and that the expense of it was very inconsiderable.

This being the usual time for commencing the business of fatting for the winter store, I have thought proper to exhibit the plan of Mr. L from a belief that it is excellently adapted for fatting cattle with the least expense. It will readily he perceived, however, that the fall pasture is calculated to obviate the expense of using boiled hay; but I have no doubt that when good hay is steam-boiled, which may be done with a little expense, it is just as nutritious for cattle as when in its green state.

A PLOUGH BOY.

## (Communicated for the Federal Gazette.) Extract of a letter, dated

LIVERPOOL, 31st July.

1st January to the 24th July, was-From the U. States and New-Orleans 167,599 Brazil West Indies East Indies 130,255

The stock of Cotion in the kingdom on the 1st instant, was computed to be-

Sea Island 7,300 Uplands 55,450 New-Orleans 20,103 Brazile 39,751 West India 22,225 East India 250,998

> 494,827 248,800

The stock on 1st July 1818, was 156,027 bags Shewing an increase of

-but this increase is almost entirely in East India Cotton.

Since the 1st inst. about 30,000 bags have been imported into the kingdom, and about the same quantity has been consumed--consequently the stock in the kingdom remains about the same as it was on the 1st instant, viz 404,000 bags, but of this 8000 have been purchased by speculators

during the present month.

The consumption of Cotton this year, we believe, has been greater than heretofore, and particularly of American cottons, owing in a great measure to the low prices of these descriptions having induced the manufacturers to make use of them in preference to East India cottons circumstance will tend to maintain the demand for Uplands, Orleans and Tennessees, and the low prices at which the manufactured article is now to be had, is likewise in favour of the present extended consumption, and probably may produce a fur-ther increase. It ought to be considered, how ever, that the very heavy stock of East India cottons will operate as some check upon any great advance in prices.

From the beginning of the year, the market

continued depressed, and prices weekly declined came in some measure restored, a demand for exportation took place, speculators appeared in the market, and prices have since been gradually ad-

This week the demand has been extensive, and sales have been made at an improvement of 1-2d per lb upon the prices of last week -- We consider the imp ovement from the lowest point to be as follows: inferiour qualities about 1-4 only-middling do. 1-2d a 1d; good do. about 1d a 1 1-2d --fine do. about 3d per lb.

The rainy and uncertain weather which we lately experienced, had the effect of producing a speculative demand for wheat and flour, and prices advanced a lit.le; but the fine weather we have had for a week past, has checked the demand, and prices are again receding. The average prices of wheat for the last two weeks, (being two of the six, which decide the opening of the ports) are only 74s and 74s 10d per quarter-f.om which it appears almost certain, that the ports will continue shut for the next three months after the 15th of August; but whether they will open subsequent to The import of Cotton into the kingdom from the the expiration of that period, is a question that depends upon the result of the approaching harvest. The crops at present look uncommonly well, and 63,579 there certainly is every appearance of a productive 22,872 harvest. Already it has commenced in the south, and if the present favourable weather should continue a fortnight, considerable progress will have 399,305 been made in the southern counties

The stock of tohacco here is about 6400 hhds. During the whole of the year, this article has been very heavy on the market, and prices have been ed by the butcher, as follows, viz, gradually declining; but we are now inclined to think, they are about their lowest point, and though we do not look forward to any material improvement, yet we are of opinion, they will command a readier sale than they have done, particularly the nner qualities.

The stock of Carolina rice here is very moderate, and the demand is steady. By the late act, there is a reduction in the duty of 5s per cwt.

Of ashes, the stock is pretty heavy, and the demand is not brisk, but as the prices are moderate. we do not anticipate any material reduction.

The import of turpentine this year is 2000 bbls. less, and of tar 10,000 bbls. less than the import up to the same perion last year. The present prices of turpentine are about 4s per cwt less than at 1814, May 13th, he was shorn, fleece weighed that time, and those of tar are nearly the same. Both meet a ready sale at our quotations.

A very large quantity of quercitron bark was purchased some time ago on speculation, which still continues in the hands of the buyers; and thus a heavy stock remaining for consumption, the article is generally dull, and none but the fine qualities This are saleable.

An act was passed the 2d inst. consolidating the duties on the importation of goods. The alteration is of little importance, excepting a reduction of 5s per cwt. in the duty on rice, and, that in place of 1d per lb. on cotton, the duty after the fifth of January next, will be six per cent. ad valorum.

> We are respectfully, Your most obedient servants, HUGHES, DUNCAN & CO

Cotton, Sea Island, inferiour, 1s 11d a 2s per until the end of last month, when confidence be- lb. middling 2s 1d a 2s 2d, good 2s 3d a 2s 5d, favorite marks 2s 6d a 3s, stained 1s 2d a 1s 7d-Upld. inferiour 1s a 1s 1-4d, mid'g. 1s 1-2d a 1s 1d, good is 1 1-2 a is 2d, fine is 2 1-4d a is 2 -2d-N. Orleans, inferior 1s a 1 1-4d, mid'g. is 1d a is 1 1-2d, good to 2d a 1 5 1-2d, fine is 4d a 1s 4 1-2d, Dunbar's gin 1s 3d a 1s 5 1-2d-Tenn. 19 1-2d a 1s-Tobacco, leaf, James river, 3 1-2d a 8d per lb. Rappahannosk, 3 1-2d a 5d, Geo. and Carolina, 3 1-2d a 5d, Ky. 3 1-4d a 11-2d, Virginia steinmed, 6d a 8d, Ky. do. 41-2d a 5d 1-2-Rice in bond, 21s a 22s per cwt-Wheat in do 6s 9d a 7s 3d per 70 lb.—Flour in do. 32s a 33s per bbl.—Ashes, first pot 36s a 37s, first pearl 40s a 43s per cwt--Turpentine, bard 10s a 10s 6d per cwt. mid'g. 11s a 11s 6d, soft 12s a 12s 6d-Tar, common 14s 14s 6d per bbl. Virginia 15s 6d a 16s-Quercitron Bark, fine 17s 6d a 19s. Do lars per oz. 5s.

> FROM THE MASSACHUSETTS AGRICULTURAL JOURNAL. PRODUCT IN MEAT, TALLOW, AND WOOL, OF A MERINO WETHER.

> [From Gorham Parsons, Esq to the Corresponding Sec'ry.] Brighton, April 26th, 1816.

#### DEAR SIR,

I have killed my full blood Merino wether, and the following are all the particulars respecting him.

He was yeaned May 26th, 1812 —His sire, my imported buck, Don Roderick—his dam, my imported ewe, Saragossa-emasculated June 8, 1812-ran with my flock without any extra feeding till December 19th last-was then put by himself for fatting, and fed on second crop Lay, corn, oats, barley, and meal, varied from time to time as best suited him. On the 23d inst. he was killed-weighed alive 140 pounds-when dress-

23 pounds. Rump hind quarter Other hind quarter 23 3-4 One fore quarter, 17 1-4 Other fore quarter, 16 1-4 77 1-4 Rough tallow, 13 90 1-4 pounds. Pelt with fleece, 16 106 1-4 Head, liver, heart, &c. 12 118 1-4 Feet, intestines-the offal, 21 3-4

1813, June 3d, he was shorn, fleece weighed 6 1-2, was sold to Dr. Tufts of Dudley, at 8s. 6d.

8 3-4 was sold to E. Matthews of New Braintree, at 12s.

1815, May 24th, he was shorn, fleece weighed 9 1-4, was sold to Thomas Bond and Co. of New Brookfield, at 6s. 6d.

10 02 Cash received. \$36 73 1816, April 25th, pulled the wool, which weighed 9lb. 13oz. and is very fine and clean, as per sample inclosed, and may be fairly estimated at 6s. 9 81

Meat and tallow at the present price readily obtained for our native sheep, 90 1-4 lb. at 9d.

-\$ 57 82 Although I gave him as much as he would cat since D cember 19th last, yet he was a very small enter, and

11 28

had a disposition to fat that I have never food in our native sheep, I feel very confident he was latted on two thirds the quantity that would have been required for

before he was killed, and afterwards by many of our most reputable and discerning butchers, and by all pronounced the fattest sheep they had ever seen. The quality of the meat I feel satisfied will prove very su-

Respectfully your very humble servant, GORHAM PARSONS.

P. S.-The sample I inclose was taken from the shoulder, but except on the quarter there is very little difference; when alive his shape and general appearance were highly approved.

[Since the above was received, the mutton of Mr. Parson's wether has been pronounced by gentlemen who partook of it, to be of a much fiver grain and better flavour than that of the common sheep of our countrythus putting it in our power to combat, we hope with article in this publication at page 140.]

From Relf's Philadelphia Gazette, Sep. 2.

to the injury of the public. I send you a case dejudges Washington and Peters, with this single observation, that if the resolution is persisted in, it will add a very serious evil to the trading interests a bona fide purchaser, but if there he any other which could legally be made against the finder or of the community, and increase the catalogue of thing on the face of such note sufficient to awaken robber. Such person takes the half part of the complaints, already too numerous, against that institution.

C. & Thomas Bullett, ) United States -President & Directors circuit and district of of the Bank of Penn- | Pennsylvania. sylvania.

April session, 1818.

Case agreed-The plaintiffs being bona fide and for a valuable consideration possessed of certain notes issued by this bank, and having had occasion to remit money to Baltimore, cut them in halves, and in February, 1806, enclosed the half recover the whole parts of said notes to their correspondents in Baltimure, which were duly received-shortly after they enclosed the remaining half parts in a letter to the same person, which letter with the enclosures was carefully deposited in the post office at Louisville in Kentucky, but the same with the enclosures have never come to the hands of the per-

satisfactory security to indemnify their against all in question possessed of them bona fide, and for a laid down in this matter. claims, loss or injury, which may happen on account of the said half parts of the said notes. Question, If the defendants are bound to pay the whole or what part of said notes?

Hopkinson, for plaintiffs, contended that the defendants were once indebted to the plaintiffs in the full amount of said notes, and though one half is lost, yet evidence may be given of the loss, and the hands of the person to whom it was directed, whether Post-Master or not, who chooses to claim it, plaintiffs are entitled to recover on such proofs nor has the said letter, nor the said half parts of will be allowed a commission of ten per cent. on all as well as if they had the notes to produce— the notes enclosed thereio, been since heard of by can be more simple or more easy of observance by is lost, yet evidence may be given of the loss, and even profert may be dispensed with if the action the plaintiffs. stated the loss of the deed, and if the evidence support the allegation.

\* See the cashier's advertisement.

ceptor or drawer.

other half parts appear.

Washington.—This incorrenience could not hap-seen whether it is applicable to a case like the prepen—it is stated that the plaintiffs were possessed sent. legally of the notes, that they cut them and sent When the half of a bank note is presented for them by post in half parts, at separate times; then payment, the payer may very probably require the it is impossible that any other person could ac-holder to account for the mutilated state of the success, a prejudice generally prevalent, it is feared, quire such a possession of the half which never note, and to prove that he came fairly to the possession of the value of this breed (whether of the pure blood or mixed,) for the butcher, we refer to the article in this publication at page 140.] any third person, such third person taking them in possession he divided it into two parts, the propayment, though for a valuable consideration, duction of one of the parts would establish his would not take them bona fide, because the very right to the full amount of the note, because in Mr. Relf-The Bank of the United States circumstance of their being but half parts, would such cases it would not happen that any third perhaving assumed a position\* which if they can le- be notice that the other half was in the hands of son could fairly acquire the possession of the other gally defend, will no doubt be taken by other banks the true owner, or some person claiming under him, half part-For if he took it in the course of trade or at any rate he would take them under such cir and for a valuable consideration, still he would cided in the circuit court of this district, before cumstances as would subject him to every equity take it with notice that the right to the money vested in any other person.

> person from whom he received it may not be the person from whom he received it. Circuit Court of the real owner, such third person takes the note sub--third ject to the right of such owner.

When half notes are brought to the bank the enquiry how they came to be mutilated, and whether it was done by the real owner is proper, and Coram-Washington and Peters judges, at the bank has a right to be satisfied as to the fact Being so satisfied, then it is impossible that any destroy all the honey and finally the wax? Will you other person can be entitled to claim upon produc-be so good as to give a hint in your paper? and request ing the other half parts.

In this case, the fair ownership of the plaintiffs medy, to publish it in the American Farmer. and the loss being admitted, they are entitled to

Judgment accordingly. Bullett Case agreed, Bank of Pennsylvania

The following is the opinion that was delivered in this case by judge Washington.

valuable consideration, that they euclosed the half 44 in a sheet of paper—write the name of his Post Office parts in a letter to their correspondent, which and his own name and then send his letter by mail at

Marias 67, on bills, states, that if the bill be ty, or to choses in action by losing evidences of it; thus far exceed our expectations, and as we rouch such loss may be supplied by parole evidence, if fear, our deserts—They are of all States in the Union,

a native sheep of the same frame. He was examined lost, the payee must proceed regularly to protest, sufficient to prove the loss and the contents of the which could only be required on the ground, that ou paper, and provided such evidence be the best proving the loss he might recover against the ac-which the nature of the case will admit—this rule does not in general apply to bank notes, or to other Ingersoll, for defendants, answered that were instruments which pass by delivery only, for in the defendants to pay the whole on the evidence of such case the payer might be twice charged, were the half parts which are produced, they might be he to be made liable to any person but the one who made liable to pay the other half whenever the produces the note or instrument. This, however, being the only reason for the exception, it is to be

> might be in the possessor of the other half, and A note payable to bearer, passed by delivery to would consequently be bound by every defence suspicion and to apprize the purchaser, that the note, not on the credit of the payer, but of the

#### OCCASIONAL EXTRACTS.

To the Editor of the American Farmer.

Sir,-In this section of the country our bee-hives are infested with a web worm, which when fully grown is about an inch long, they are in such quanany of your readers, that may be possessed of a re-

# FARMER.

BALTIMORE, TRIDAY, SEPTEMBER 17, 1819.

## Agencies for this Paper.

We beg to be indulged with a few words on this sub-In this case, it is the opinion of the court, that ject-numerous friends have suggested the expediency son to whom it was directed, nor has it nor the said half parts of the notes been since heard of by dants the full amount of hank notes. The important facts agreed by the paintiffs.

The plaintiffs offer to the defendants ample and tiffs were at the time they divided the bank notes see no inducement to depart from the rules we have

> came safe to hand, and are now in the custody of our cost and risk-what can be easier? The file of pasubsequently enclosed in a letter to the same correspondent; and the letter with such enclosures put to the neighbouring Post Master—and on sending his in the post office, but that the same never came to receipt, the paper will be forwarded; and any one those who choose to favour us with their patronage? A work of this sort must rety on its solid continued utili

of all sects, and parties .- Gentlemen distriguished alike for their wealth, their practical knowledge and their public spirit

We give below a list of the prices of most articles in the common market, and of the more bulky product of the country. It will be seen that in most cases the prices remain the same, as when these same articles were last enumerated. We have not heard of any sales of tobacco within the week; in the next number we may be able to state the price more particularly.

We shall occasionativ publish, as we have done in this number, extracts of letters from Europe, to give a general view of the state of the market there, as respects most or the articles the growth and produce of our own country. In such cases we shall take care that the extracts are genume, written as far as we can ascertain, by gentlemen of integrity to respectable merchants here, whose life and characters raise them far above the suspicion of trick and duplicity.

Current prices of country produc, ascertained by actual sales, within the last neek

WHEAT, white \$1 10 a 1 12 1-3-Red, do \$1 4 a 18 Kyc, 50 a 55 cts. - Oats, 40 a 45 cts. - Corn, 60

cts.—day, per ton, \$18—Straw, 13— Butcher's beef, best pieces, 10 a 12 1-2—Chickens, per doz. \$2 a 2 50 Veal, per ib. Sa IJ cts. - Mutton 6a 8 cts.—Sait Beef, prime pieces, 6a 10 cts.—Pork 6 a 10 cts.—Eggs, per doz. 13 1-2 a 18 3-4 cts.—Buter, 25 a 37 1-3.-Potatoes, per peck, 37 1-2 a 50 cts. Onions, per peck, 37 1-2 a 50 cts.

It will be seen that this paper is not now printed by Mr. Ebenezer French, as heretofore - and in order to prevent the idea of versatility, on his part, or, of dissatisfaction on the part of the Editor, it may not be amiss to state, that the change is not attributable, in any degree, to either of these causes; it is altogether the result of the Editor's own private views, connected with his particular interests, and with the detail of which it would be impertment to trouble his subscri. Hand, weighed 642 pounds the bushel.

#### =000= ADVICE TO A YOUNG TRDESMAN. Written Anno 1748, by Dr. Franklin.

TO MY FRIEND A. B.

As you have desired it of me, I write the following hints, which have been of service to me, and may, if observed, be so to nou.

Remember, that time is money. He, that can earn ten shillings a day by his labor, and goes abroad, or sits idle one half of that day, though he spends but sixpence during his diversion or idleness, ought not to reckon that the only expence; he has really spent, or rather thrown away, five shillings besides.

Remember, that credit is money. If a man lets his money lie in my hands after it is due, he gives me the interest, or so much as I can make of it, during that time. This amounts to a considerable sum where a man has good and large credit, and makes good use

Remember, that money is of a prolific generating nature. Money can beget money, and its offspring can beget more, and so on. Five shillings turned is six, turned again it is seven and three-pence, and so on till it becomes an hundred pounds. The more there is of it, the more it produces every turning, so that the profits rise quicker and quicker. He that kills a breeding sow destroys all her offspring to the thonsandth generation. He that murders a crown destroys all that it might have produced, even scores of pounds.

Remember, that six pounds a year is but a great a day. For this little sum (which may be daily wasted either in time or expence unperceived) a man of credit may, on his own security, have the constant pos-session and use of an hundred pounds. So much in stock, briskly turned by an industrious man, produces great advantage.

Remember this saying, "the good paymaster is lord of another man's purse." He that is known to pay punetually and exactly to the time he promises, may at any time, and on any occasion, raise all the money his friends can spare. This is sometimes of great use. After industry and frugality, nothing contributes more

to the raising of a young man in the world, than punctuality and justice in all his dealings; therefore, never keep borrowed money an hour beyond the time you promised, lest a disappointment shut up your friends purse for ever.

The most trifling actions that affect a mun's credit are to be regarded. The sound of your hammer at five in the morning, or nine at night, heard by a creditor, makes him easy six months longer; but if he sees you at a billiard table, or hears your voice at a tavern, to assure their fellow citizens of the continued health when you should be at work, he sends for his meney the next day, demands it before he can receive any member of this society, or any other practitioner of it ín a lump.

It shows, besides, that you are mindful of what you owe; it makes you appear a careful as well as an hon- originated on the east. est man, and that still encreases your credit.

and of hving accordingly. It is a mistake that many still continues free from any contagious quality what-people who have credit fall into. To prevent this, ever. The reports of the Board of Health show, that keep an exact account for some time, both of your ex. there are deaths from malignant fever occurring daily pences and your income. If you take the pains at first west of the Falls, and yet in no case has the disease to mention particulars, it will have this good effect; you will discover how wonderfully small trifling ex- Hospital, where the disease is accumulated in its worst pences mount up to large sums, and will discern what stages, so far as we have been able to ascertain, no atmight have been, and may for the future he saved, tendant or nurse has been infected. without occasioning any great inconvenience.

plain as the way to market. It depends chiefly on two ty which as yet has not been arrested. This they attriwords industry and frugulity; that is, waste neither bute in a great degree to patients not making early aptime nor money, but make the hest use of both. With-plication for medical aid. They would therefore urge, out industry and frugality nothing will do, and with by every motive which makes life desirable, all per-them every thing. He, that gets all he can honestly, sons who have been exposed to the local causes of the and saves all he gets (necessary expenses excepted,) fever, to make the earliest possible application for will certainly become rich-if that Being who governs medical relief.-After the first few hours of the fever the world, to whom all should look for a blessing on have elapsed, the physician is often called to perform their honest endeavours, doth not in his wise provi- one of the most painful duties of his profession, to witdence, otherwise determine. - Franklin's Works.

Heavy Wheat .- The beautiful White Wheat. noticed in our last, sent to this market by Tench Filghman, Esq. of the Eastern Shore of Mary.

Noble Undertaking .- A Boston paper describes an enterprize of an important and novel character, which is and noble avenue to the metropolis and to afford many mill priviledges. It was a project of the late ingenious Mr. Cotting and is now on the eve of accomplishment as well as extensive public good.

Expense of Drinking Spirits .- There is a man, (says a writer in the Hampshire Gazette) well known to me, who, by computation, has been found, within the last thirty-two years, to have expended for ardent spirits, a sum, the principal and interest of which, amount to five thousand five hundred and twenty four dollars, sixty-two cents, more than twice the value of his present real estate. What is more surprising, this man is still living, and still continues the inordinate use of spiritous liquors. O, tempora! O, mores!

High Price of Books .- Few persons are aware that there once existed a law relative to limiting the price ed to the purse, the three mile heats. of hooks, viz. in an Act respecting Copyright, of the eighth of Queen Ann, where it is enacted, "That if any bookseller or printer shall, after the 25th of March, 1710, set a price as shall be conceived by any person to be high and unreasonable, he may make complaint to the Lord Chancellor, the Bishop of London, &c. who have authority to call the publishers and to enquire the reason of the dearness of the book; and should they find it unreasonable, they can alter the price, and the publishers shall remunerate the person who laid the complaint, if any alteration should take place: and should any bookseller or printer sell or expose the book at a greater price than the one so fixed, they shall forfeit the sum of 51. for every such book.

Government has just bought about ten millions acres of land of the Kickapoo Indians.

The revolutions of commerce. -- The ship Midas, just arrived at Boston, in 144 days from China, among her cargo, brings 4 cases of twilled flannels, of China Manufacture.

CHIURGICAL SOCIETY.

The members of the District Medical and Chirurgical Society of Baltinore, have it again in their power medicine, since their last report, on the west side of Jones' Falls, which is not distinctly understood to have

They have, also, the satisfaction to state, after the Beware of thinking all your own that you possess, most vigilant attention to the subject, that the fever been communicated to the attendants. At the City

They lament with the deepest regret that the fever In short, the way to wealth, if you desire it, is as is increasing at Fell's Point, accompanied by a mortaliness the rapid approach of death without the power of arresting it.

But when the proper means are resorted to early, they do not hesitate to declare, as their unanimons opinion, that the yellow fever is under the dominion of medicine.

ASHTON ALEXANDER, M. D. Pres't. JOHN B. CALDWELL, M. D. Sec'ry.

ADVERTISEMENTS, which are, in their naabout to be effected near the town-it is the Boston and ture and objects suited to a paper of this sort, such as, Roxbury oill dam, and represented as a solid road the sales of land, seed, live stock, implements of husover a mile and a half of flats. It is to form a grand bandry, new inventions, &c. &c. will be inserted once only, at the rate of \$1 per square, to be paid in advance. The very extensive circulation of the paper among landed men, throughout the United States, by an association of the capitalists. This bold and makes it an eligible medium for giving such public nomagnificent work promises to promote private interest tices, and one publication is as good as forty, unless in cases where the law prescribes a greater number of

COMMUNICATED FOR PUBLICATION.

Exhibition of fine Horses and "their premiums."

## Easton Jockey Club Races.

Will be run for on WEDNESDAY the sixth day of October, the first day's Jockey Club Purse of the whole subscription of the members, the four mile heats.

On Thursday the 7th day of October, the Town's Purse of all the subscription money for that purse with ten per cent. entrance by members, and twenty per cent. entrance by gentlemen not members, to be add-

Oo FRIDAY, the Jockey Club Colt's Purse of all the gate money of the three days, the two mile heats.

JESSE SHEFFER, Sec'ry. The owners of fine Horses are invited-"ubium J. S. Sec'ry

#### THE HORSE.

TO THE EDITOR,

The Horse so famed in history, I sing, Whose master, he appointed once a king, Whose royal value gives him such renown, For whom king Richard, offered once his erown, Of Cattle, you have told as Jewish tricks, How Jacob, cheated Laban with striped sticks I hope that you, with knowledge box so full, Will tell us why St. Patrick rides a Bull? A FARMER, E. S.

## PRICES CURRENT

AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Revised and Corrected ever	y 1 nur	saay.
ARTICLES. PER.	RETAIL F	RILES
REEF. Northern mess ) - bbl.	15	
No 1 wholesale.	121	
No 2 ) -   b.	10}	
Butter, Ferkin, wholesale.	18	
Coffee, first quality, -	<b>3</b> 3	
second do.	27	2
Cotton,	17	4
Twist, No. 5, No. 6 a 10,	75	4
No. 11 a 20,	53	
No. 20 a 30,	75	
Chocolate, No. 1,	33 28	
No. 2, No. 3,	25	
Candles, mould, box	20	2
dipt,	18	1
spermaceti, - lb.	10	scarc 1
Cheese, American, 10.	69	ė
Fish, cod, dry [qt].	<b>3</b> 50	
herrings, Susquehannah, bbl.	ol.2 50	new
mackarel, No. 1 a 3	7 75	9 7 8
shad, trimmed,  Flour, superfine,	5 50	6
fine, bbl.	5	5 5
middlings,	4 50 4 a	5 4 2
rye, Plaxseed, rough, cask	none.	* *
cleaned, • • bush		
Flax,   lb.	do	Ι,
Hides, dryed,	12	
Hogs lard, Leather, soal,	25	
Molasses, Havana, gal.	45	į
New Orleans,	50	1
sugar bouse,   gal.	1 50	
Oif, spermaceti, gal. PORK, mess or 1st quality, bbl.	18 a	19
prime 2d do	15 a	16
Plaster.	14 a	15
Plaster, bbl.		
Rice [lb.	6	
Spirits, Brandy, French, 4th proof gal.	2 1 25	2
peach, 4tb proof apple, 1st proof	75	' '
Gin, Holland, 1st proof	1 25	1
do. 4th proof		]
do. N. England Rum, Jamaica,	1 50	
American, 1st proof	50	
Whiskey, 1st proof	35	
Soar, American, white, lb. do. brown, -	18	
Sugars, Havana, white,	19	
brown, N. Orleans, -	111	12
loaf, [	25	
Salt, St. Ubes,   bu.	1	
Liverpool, ground,	75	
Shot, all sizes,   lb.	7 12	ï
TOBACCO, Virginia fat, cwt	6 50	
Rappahannock,	5	5
Kentucky, -	6 50	
small twist, manufactured, b.	25	
TEAS, Bohea,	65	
Southong,  1b.	75	
Hyson Skin	t 25	
Young ilyson, Imperial,	1 75	
WOOL, Merino, clean,	80	) <u> </u>
unwashed, -	40	
crossed, clean, unwashed, -	65	
common country, clean,	3	7
unwashed	2	
skinner's,	3:	71

FEMALE BEAUTY AND ORNAMENTS

the Indies paint them red. The blackest teeth Natal; they wear caps or bonnets, from six to ten are esteemed the most heautiful in Guzurat, and in linches high, composed of the fat of oxen; they then some parts of America. In Greenland, the wo gradually anoint the head with a purce grease, men colour their faces with blue and yellow. How ever fresh the complexion of a Muscovite may be. for their lives. she would think herself very ugly, if she was not plastered over with paint. The Chinese must have their feet as diminutive as those of the she goats; and, to render them thus, their youth is passed in tortures. In Ancient Persia, an aquiline nose was often thought worthy of the crown; and if there was any competition between two princes lay it in a coal oven; get a bullfrog, without burtthe people generally went by this criterion of maliugit, says the Indian, the frog must be alive; pesty. In some countries, the mothers break the lay the frog with the back down in the butter; noses of their children, and in others, press the hake the frog until it is well done; take it out, pour head between two boards, that it may become off the hutter in a vessel and annoint the wea square. The modern Persians have a strong average of the as you please in the course of the day.

This cure had been tried on a wen that had been warm admirers of these disgusting locks. The In-growing for thirty years, and had become quite dian beauty is thickly smeared with bear's fat, painful with an itching. It ceased the first day But the female Hottentot receives from the hand this was tried, and sunk very soon. In eight or of her lover, not silks, or wreaths of flowers, but hine months the body of the wen was soon zeed ont. warm guts and recking tripe, to dress herself with without pain.—The patient thinks it would have enviable ornaments.

are continually plucking their eve-brows, that they sensation, as if it was searching to the roots. Any may he small and long The Turkish women dip person thus affected, need not hesitate to try the a gold brush in the fineture of a black drug, which experiment, as it is very simple.—Rich. Com. they pass over their eye-brows. It is too visible 15 by day. but looks shining by night. They tinge 18 their nails with a rose colour.

An ornament for the nose appears to us perfeetly unnescessary. The Peruvians, however, think otherwise; and they hang on it a weighty a twelfth part of an acre, planted in pumpkins at ring, the thickness of which is proportioned by the Westbury, on West River in 1819. This was rank of their husbands. The custom of boring it, fresh cleared bottom land, but so full of grubs and as our ladies do their ears, is very common in se-roots as not to admit the plough; it was hilled up veral nations Through the perforation are hunglearly, worked over and planted about the 20th of various materials; such as green chrystal, gold, May at 41 feet distance, and two plants left standstones, a single and sometimes a great number of ing in the hill were not missing, the ground regold rings. This is rather troublesome to them in crived but one hoeing after planting. On the 10th blowing their noses; and the fact is, some have in- of September, 41 pumpkins were pulled weighing 50 formed us, that the Indian ladies never perform 3873 pounds; the weights of the 80 largest, were th is very useful operation.

tries, to singular extravagance. The Chinese fair 92, 92, 92, 90, 89, 87, 84, 82, 80, 80, total carries on her head the figure of a certain bird; 3224 pounds—three of the largest size being rotten this hird is composed of copper or of gold, ac and one pulled before, were not weighed, and a cording to the quality of the person; the wings number of smaller size not ripe, were left on the and conceal the temples. The tail long and open 50,000 weight per acre at one pulling in the driest forms a heautiful tuit of feathers. The beak co-season ever recollected by the owner. Twentythe body of the artificial ar imal by a spring, that if et during the week, that persons desiring, may be may the more freely play, and tremble at the supplied with the seed. slightest motion.

The extravagance of the Myanteses is far more ridiculous than the above; they carry on their heads a slight hoard, rather longer than a foot, and passengers arrived at Philadelphia on Sunday, about six inches broad; with this they cover their from Antwerp, London, Liverpool, and Nova 100 hair, and seal it with wax. They cannot lie down Scotia. nor lean, without keeping the neck very straight; 150 and, the country being very woody, it is not uacommon to find them with their head-dress entangled in the trees. Whenever they comb their hair, they pass an bour by the fire in melting the wax; but their combing is only performed once or twice a year.

To this curious account - xtracted from Duhaide. The Ladies in Japan gild their teeth; and those we must join that of the inhabitants of the land of which, mixing with the hair, fastens these bonnets

#### A CURE FOR A WEN.

AN INDIAN PRESCRIPTION.

First, take a pound of new butter. without salt, come out much sooner, but she neglected it, as it In China, small eves are liked; and the girls did not hurt, the applications produced a curious

#### EXTRAORDINARY PRODUCE.

152, 146, 140, 140, 137, 132, 130, 123, 120, The female head-dress is carried in some coun-115, 112, 110, 110, 107, 105, 100, 97, 95. 93, spread out, fall over the front of the head-dress, tines. The product may be fairly estimated at vers the top of the nose; the neck is fastened to live of the largest will be sent to Baltimore mark-

Emigration .- Five hundred and sixty-eight

PRINTED EVERY FRIDAY AT \$4 PER ANN.

FOR JOHN S. SKINNER, EDITOR,

At the corner of Market and South-streets,

# AMERICAN FARMER.

## RURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIRG.

Vol. L

## BALTIMORE, FRIDAY, SEPTEMBER 24, 1819.

Num. 26.

## AGRICULTURE.

On the best means of applying PLASTER OF PARIS, and of recruiting exhausted land, by Joshua DELAPIANE, Esq. of Frederick county, Maryland

[Communicated for re-publication in the American Farmer,] The information you ask on the use of plaster of Paris, the best method of improving exhausted lands, the best mode of making manure, of preserving stock through the winter, as well the best plough, shall be carefully given, according to my experience. Your first inquiry relates to the best mode of using plaster. I would recommend it in all cases to be scattered and harrowed in with the grain of all kinds; this is more absolutely necessary when the land is exhausted, as it aids and nourishes the sprout immediately on its coming up, Where there are two or three harrows, it requires two hands; but with one harrow, a single person is sufficient for both operations, as he would first sow the grain and then the plaster. On winter grain, I would repeat another bushel per acre, the last of February, or the first of March; this would not be necessary after the first year, or after your lands were once plastered; then only sow plaster with the grain. I would recommend har rowing in every kind of grain, and be sure to have your lands harrowed the first time, the way it was ploughed; this will level your ploughing, whereas if you harrow cross ways, it turns up your furrows. It is not necessary to put grain in deep; as a proof, put in some grain six inches deep; it will come up after two or three weeks; examine and you will find the main root, from which it took its growth, gone, and new roots near the surface of the earth succeed; it only requires to be covered. Rye is the best crop to improve land, and at the same time to raise clover. Clover seed ought to he sowed on the rye in February. Rye is the most valuable to raise on exhausted land; its growth is rapid in the spring, secures the clover from the scorching sun, shades the earth, and acts so as to nourish and replenish the land; it is the most cer tain crop, and as it makes more straw than any this pen you will lose all the manure, as it will be once well plastered do not need it, as its virtue jury.

carried off by every rain; you have another pen | will not be lost in less than seven years; owing to upon dry and, well littered with long rye straw; after ever rain the hogs will cut it up short and pen, feed only half a barrel of corn and two bushels of chopt rye; have two hogsheads near your pen, the soil and cultivator into which put every day the two bushels of chopt rve, and have them filled up with water and stirred. let it stand twenty four hours before used, give this to the bogs instead of water; by having two hogsheads, by the time one is used the other will be fit; keep up the hogs in both pens the same time, and when killed, you will find those in the dry pen will weigh ten per cent. heavier, and if I had my choice of the pork I should prefer it; besides, the manure will be valuable the ensuing when it stands most in need. Some roll the grain year. You can safely winter your sheep on your in plaster. My plan has been, for one hand to sow rye fields without the least injury to it—and with the grain, while another follows to scatter the the greatest advantage to your sheep-I generally plaster at the rate of one bushel to the acre. let my sheep run on my rye fields until the last of March I have a field which contains 20 acres, to bushels of corn per acre. I ploughed it up and sowed it with rye and one bushel of plaster and one bushel of plaster; at harvest I cut 16 bushels of rye per acre; the spring following I sowed it again with one bushel of plaster and mowed that season two tons of hay to the acre, and crop; the spring following I sowed it again, with plaster as before, and cut that year 2 1-2 tons of hay -I then ploughed up the second crop and sowed it with wheat, which produced 28 bushels per acre. I then ploughed up the wheat stubble and sowed with rye, which produced me 25 1-2 bushels per acre; the spring following I gave it a dressing of manure, ploughed it up and planted it in corn, first rolling the seed in plaster, and when it got up about six inches high, I sowed it broad cast with plaster at the rate of one bushel per acre, off which I gathered 323 barrels of corn (equal to 30 bushels per acre,) the next spring I sowed it with spring barley, (oats would equally prosper which yielded 32 bushels per acre, which I sold in Georgetown at \$1 50 per bushel; after cutting the barley, I ploughed down the stubble, and sowed other grain, the f rmer is enabled to make more it with wheat at the rate of 1 1 2 bushels per acre; and the best manure. By proper management, this and one bus el of plaster. This crop vielded me grain can be used in every shape, by having it properly ground, and the best flour separated, it will my stubble and sowed down in rye, which I cut make good bread, and the balance will make good last summer and is now in the straw, and from which feed for any kind of stock. It is the best grain for I think I shall get at least 30 bushels per acre; work horses, and is valuable to fatten hogs, but I sowed it last February with clover seed, and inupon this suggestion I expect a host of prejudices tend mowing it the ensuing season.—I have made against me; experience however has taught me this statement to prove, that the only sure mode the best of the substance not to give way For example, say you have a of improving land, is by a regular routine of crop pen of hogs with water running through it, to ping You will observe, I did not sow this field which you give every day one barrel of corn; in every year with plaster, nor is it necessary; lands were sufficiently frozen to go on them without in-

the scarsity and high price of plaster, for the last wo years, I may say I have used none, and I do make their beds neat, if you have not straw, leaves not believe I suffered for the want of it. Corn will be an excellent substitute; let the number of cropping ought to be avoided as much as possible hogs be equal in both pens; to those in the second upon exhausted lands, unless they become souldy, then they may be tended with advantage, both to

Plough up the sod completely in April, barrow it well the same way that it is ploughed, then furrow it quite shallow, barely to make a furrow to plant your corn; be sure not to disturb the bottom of your sod, when the corn gets up about six inches. harrow it well and plough quite shallow; your corn will not look so promosing at first, until the roots penetrate the sod, it will then grow rapidly and wil' not suffer from drought; as the sod if left down will retain the moisture : all the work given corn should be before harvest, and in no case should corn be followed with winter grain; if you can give your corn ground a dressing of manure, I would sow it with oats, then plough up the oats and sow wheat, plough down the stubble then -ow rye, which 10 years ago would not produce more than then clover seed, let the clover remain two years, which would be making four crops in six years. If you have not manure to dress your corn ground. per acre; in February I sowed it with clover seed fallow it the next year for wheat, plough down the stubble, sow rye, then clover seed; be sure never to plough your stubble but once, leaving all covered you possibly can, harrow in all your grain as I have before observed; when you plough down made 33 bushels of clover seed from the second clover for wheat, be sure to do it as neatly as possible, the seed turned under will lie the first year without sprouting-this ought to be done between the middle of August and September; after harvest plough down your wheat stubble, sow rye, and the clover seed, turned under the year before, by being brought to the surface, will come up so thick as to need little seed, if any at all In short, when the ground is well set with clover, you will scarcely ever be compelled to sow more seed; my plan has been to raise a crop of wheat and rye, then let it lie one year in clover, then wheat and rye again, that is to make two crops every two years on the same land, except when I put corn and manure, then I generally take four or five crops running before I give it rest-and would in no case advise land to lie in clover more than one or two years. The best mode of saving manure when it is scarce, and can only be applied to the corn hill, is to keep it in a close heap, to become well rotted; but if you can save enough to give the ground a top dressing, I would prefer hauling it out in the raw state, and let it pass through putrefaction where it is to act, in this way your land will receive the whole benefit; if it is left in the barn yard, every rain will wash away

I have for some years given my fields a top dressing in the poorest places, whenever the grounds

and ought to be saved in every shape and manner. To increase the quantity, your stables should be kept well littered with straw; to have stables for your stock is equally important to preserve them during the winter, and to accumulate manure; with such protection, good hay will keep them in good order. A farmer should always proportion his stock to his means for subsisting them, and never overstock himself-as one horse well fed will do more work than two badly feu; one cow well fed will give more milk than two badly fed, and one good sheep more wool than two bad ones .-In fine nothing which a farmer keeps upon his farm, from his horse to his dog, should suffer for food-to make his farm profitable, he should make a little of every kind to sell; he should not fix his mind upon one object of profit alone-Corn or hay, I would not attempt to make for sale upon exhausted lands; after they are restored you may add the sale of corn and hay to a small extent. A farmer should be certain to have his work done in a proper manner, his ploughing finished and grain sowed in due time and season. When a farmer gets his lands in proper cultivation, he ought to make 1000 bushels of grain to the hand, taking into calculation every thing he raises; in harvest and hay making, he will be compelled to hire hands to save the crop.—During the last seven years I have worked five hands the year round, and a y crops (including every kind of grain) have averaged five thousand bushels ; this may be doubted the reader may judge as he pleases, but I am bound to state the truth-our land holders who have most in their power, trust too much to others; they should trust to their own judgement, and see that their plans are properly executed. The best ploughs for land clear of stone are made by Che noneth of Baltimore; if the land is stoney and rough I would recommend Ogle's. On lands that have not been clavered, I would sow one gallun of clover seed per acre, which ought to be done on rye in February-one and a half bushels of wheat, the last week in September or the first week in Octo ber-one bushel of rye the 2d or 3d week in Septem er-two bushels of barley or oats as soon as the spring will admit. I have been thus full in giving my opinion; you can adopt as you may think advisable, should any thing I have said prove of advantage, I shall feel myself well rewarded.

FROM SINCLAIR'S CODE OF AGRICULTUHE.

#### LIVE STOCK.

By far the largest proportion of the territory of almost every country, is devoted to the breeding and support of live stock. In early ages, these were the only criterion of wealth. They became of less consequence, when the culture of grain was first introduced but their importance afterwards, as the instruments of cultivation, as the means of supplying a large proportion of our food, and as furnishing a variety of our most essential accommodations, combine to render this Branch of the inquiry, peculiarly interesting.

to discussing this subject, it is only proposed to offer a few general remarks. 1. On the most desirable properties of live stock; 2. On the principles of improved breeding; and, 3. On the management of stock. To enter fully into details regarding these particulars, would require a volume of no inconsiderable dimensions.

1 On the most desirable properties of live stock.
Under the general term live stock, are comprehended

Manure may be called the farmer's gold mine, dought to be saved in every shape and manner, or increase the quantity, your stables should be sept well littered with straw; to have stables for ur stock is equally important to preserve them are given the winter, and to accumulate manure; ith such protection, good hay will keep them in

The most desirable properties of live stock in gene ral, may be considered under the following heads: 1. size; 2. form; 3. early maturity; 4. hardiness of constitution; and, 5. prolific quality; to which may be added, with regard to those sorts which are destined for food; 6. a tendency to grow; 7. a disposition to fatten; and, 8. lightness of offal.

1 Size.—Before the improvements introduced by Bakewell, the value of an animal was entirely judged of by its bulk; and if a great size could be obtained, more regard was paid to the price the animal ultimately fetched, than to the cost of its food. Of late, since breeders began to calculate with more precision, small or moderate sized animals have been generally preferred, for the following reasons:

1. Small sized animals are more easily kept; they thrive on shorter herbage, and are thence more profitable 2. Their meat is finer grained, produces richergravy, has a superior flavour, and is commonly more nicely marbled, or veined with fat. 3. Large animals are not so well calculated for general consumption, as the moderate sized, particularly in hot weather. 4. Large animals poach pastures more than small ones. 5. They are not so active, require more rest, and collect their food with more labour. 6. Small cows of the true dairy breeds, give proportionately ore milk than large ones. 7. Small cattle may be fattened on grass solely, of even moderate quality: whereas the targe require the richest pastures, or to be stall-fed, the expense of which exhausts the prunt of the farmer 8. It is much easier to procure wellshaped and kindly feeding stock of a small size, than of a large one. 9. Small sized eattle may be kept by many persons, who cannot afford either to purchase or to maintain large ones; and by whom the loss, if any aecident should happen to them, can be more easily borne. 10. The small sized sell better; for a hutcher will give more money for two oven of twelve stone each per quarter, than for one of twenty-four stone.

In favour of the large sized, it is on the other hand contended-1. That without debating whether from their birth, till they are slaughtered, the large or the small one eats most for its size; yet on the whole, the large one will pay the grasier or farmer who fattens him as well for its food. 2. That though some large oxen are corsc grained, yet where attention is paid to the breed, (as is the case with the Herefordshire,) the large ox is as delicate food as the small one 3. That if the small sized are better calculated for the consumption of private families, of villages, or of small towns, yet that large cattle are fitter for the markets of great towns, and in particular of the metropolis. That were the flesh of the small sized ox better, when fresh, yet the meat of the large sized it inques tionably more calculated for safting, a most essential object in a maritime and commercial country; for the thicker the beef, the better it will retain its juices when salted, and the fitter it is for lung voyages. 5. That the hide of the large ox is of very great consequence in various manufactures. 6. That where the pastures are good, cattle and sheep will increase in size, without any particular attention on the part of the breeder; large animals are naturally, therefore. the proper stock for such pastures. 7. That the art of fattening cattle, and even sheep, with oil cake, being much improved and extended, the advantage of that practice would be of less consequence, unless large oxen were bred, as small oxen can be fattened with grass and turnips, as well as oil-cake; and lastly. that large oxen are better calculated for working than small ones, two large oxen being equal to four small ones, in the pluugh or the cart.

Such are the arguments generally made use of on both sides of the question; from which it appears, that much must depend upon pastures, taste, mode of consumption, markets, &c. and that both sides have their advantages. The intelligent breeder, however, (unless his pastures are of a nature peculiarly forcing,)

will naturally prefer the moderate sized, in stock be rears

The late Mr. Davis, of Longleat, one of the ablest agriculturalists this country has produced, has given some useful observations on the subject of size. He laments that the attempts which have been made to improve the breeds of cows, horses, and sheep, have proeeded too much upon the principle of enlarging the size of the animal; whereas in general, the only real improvement has been made in the pig, and that was, by reducing its size, and introducing a kind that will live hardier, and come to greater perfection at an carlier age. His objections indeed to the using of large heavy heeled black horses, in preference to the smart, the active, and the really useful breeds, merit particular attention. In some situations, the steep-ness of hills, and the heaviness of the soil, require more than ordinary strength; but in such cases, he maintains, that it would be better to add to the number of horses, than to increase their size. Great horses not only cost proportionably more at first than small ones, but require much more food, and of a better quality, to keep up their flesh The Wiltshire carter, also, takes a pride in keeping them as fat as possible; and their food (which is generally barley) is given without stint. In many instances, indeed, the expense of keeping a fine team of horses, amounts to nearly the rent of the farm, on which they are worked. They are purchased young when colts, and sold at five or six years of age, for the Loudon drays and wagons. The expence of their maintenance is very seldom counterbalanced by the difference of price, more especially as such horses are gently worked when young, that they may attain their full size and beauty. in ploughing light soils, the strength of a dray horse is not wanted; and in heavy soils, the weight of the animal does injury to the land.

2 Form. Though it is extremely desirable, to bring the shape of cattle to as much perfection as possible, yet profit and utility ought not to be sacrified for mere beauty, which may please the eye, but will not fill the pocket; and which, depending much upon ca-

price, must be often changing.

In regard to form, the most experienced breeders seem to concur in the following particulars: 1 That the form or shape should be compact, so that no part of the animal should be disproportioned to the other: and the whole distinguished by a general fulness and rotundily of shape. 2. That the chest should be broad; for no animal, whose chest is narrow, can easily be made fat. 3. That the carcass should be deep and straight. 4. That the belly should be of a moderate size; for when it is more capacious than common, in young animals, it shows a diseased state, and in ulder ones, it is considered a proof, that the animal will not return in flesh, in milk, or in labour, the value of the extra quantity of food which it consumes; and, 5. That the head, the bones, and other parts of inferiour value, should be as small as is consistent with strength, and with the other properties which the animal ought to possess. The form must likewise be such, as to contain the greatest possible proportion of the finer, compared to the coarser and less valuable parts of the animal. This, by selection, may be attained; and thus the wishes of the consumer may be

The form of animals has fortunately attracted the attention of an eminent surgeon, (Henry Cline, Esq. of London,) the substance of whose doctrines are—1. That the external form is only an indication of the internal structures. 2. That the lungs of an animal is the first object to be attended to; for on heir size and soundness, the health and strength of an animal principally depend. 3. That the external indication of the size of the lungs, are the form and size of the chest, and its breadth in particular. 4. That the head should be small, as by this the birth is facilitated, as it affords other advantages in feeding, &c. and as it generally indicates that the animal is of a good breed. 5. That the length of the neck should be in proportion to the size of the animal, that it may collect its food with ease: and, 6. That the muscles and tendons should be large, by which an animal is enabled to travel with greater facility.

It was formerly the practice to estimate the value of animals by the size of their bones. A large bone was considered to be a great merit; and a fine boned animal always implied great size. It is now known that

this doctrine was carried too far. The strength of an animal does not depend upon the hones, but on the muscles; and when the hones are disproportionably large, it indicates, in Mr. Cline's opinion, an imperfection in the organs of nutrition. Bakewell strongly insisted on the advantage of small bones; and the celebrated John Hunter declared, that small bones were generally attended with corpulence, in all the various subjects he had an opportunity of examining. A small bone, however, being heavier and more substantial, requires as much nourishment as a hollow one, with a larger circumference.

3. Early maturity.—Arriving soon at perfection, is a material object for the breeder, as his profit must in a great measure depend upon it. Where animals, bred for the carcass merely, become fat at an early age, they not only return sooner the price of their food, with profit to the feeder, but in general, also, a greater value for their consumption, than slow feeding animals. This desirable property greatly depends on a mild and docale disposition; and as this docility of temper is much owing to the manner in which the animal is brought up, attention to inure them early to be familiar, cannot be too much recommended. A tame breed also has other advantages. It is not so apt to injure fences, or to break into adjacent fields; consequently, it is less liable to accidents, and can be reared. supported, and fattened at less expense. The property of early maturity, in a populous country, where the consumption of meat is great, is extremely beneficial to the public, as it evidently tends to furnish greater supplies to the market; and this propensity to fatten at an early age, is a sure proof, that an animal will fatten speedily at any other period of his life.

4. Hardiness of constitution. - In the wilder and bleaker parts of a country, the possession of a hardy and healthy constitution is a most valuable property in stock. Where the surface is barren, and the climate rigorous, it is essential, that the stock bred and main tained there, should be able to endure the severities and vicissitudes of the weather, as well as scarcity of food, hard work, or any other circumstance in its treatment, that might subject a more delicate breed to injury. In this respect, different kinds of stock greatly vary, and it is a matter of much consequence, to se lect, for different situations, cattle, with constitutions suitable to the place where they are to be kept. It is a popular belief, that dark colours are indications of hardiness. In mountain breeds of cattle, a rough pile is reckoned a desirable property, more especially when they are be to kept out all winter. It enables them to face the storm, instead of shrinking from it. Hardy breeds are exempted from various diseases, as having yellow fat, also being lyery, or blackfleshed, so injurious to stock.

5. Prolific quality - By this property is meant, that the females of a breed, both bear more frequently than usual, and also have frequently more than one at a birth. This property runs more strikingly in sub-varieties, or individual families; but by selection, might probably be extended to the whole breed, in the more general acceptation of that word. This quality is partly owing to something in the habits of animals, and partly to their previous good or bad treatment. In breeding, not only the numbers, but the sex of the offspring, in many cases, seem to depend upon the female parent. Two cows produced fourteen females each in fifteen years, though the bull was changed every It is singular, that when they produced a bull calf, it was in the same year. Under similar circumstances, a great number of males have been produced by the same cow in succession, but not to the same extent.

6. A tendency to grow.-Among the qualities for which thorough-hred cattle and sheep are distinguished, that of being good growers, and having a good length of frame, is not the least essential. The meaning of which is, that the animal should not only be of a strong and healthy constitution, but while it gains flesh and condition, should grow to a proper size. As specimens of rapid growth, a steer of three years old, when well fed, will weigh from 80 to 90 stone, 14lb to the stone; and a two year old Leicester wedder, from 25 to 28lb. per quarter, immediately after his second fleece is taken from him. Animals who have the property of gowing, are usually straight in their back and belly; their shoulders well thrown back and their less they are first rate handlers. belly rather light than otherwise. At the same time,

ed against, as a most material defect, indicating a very unthrifty animal. Being too light of bone, as it is termed, is also a great fault. A good grower, or hardy animal, has always a middling sized bone. A bull distinguished for getting good growers, is inestimable; but one whose progeny takes an unnatural or gigantic size, ought to be avoided.

9. A disposition to fatten .- This is a great object in animals destined for the shambles. Some animals possess this property during the whole progress of their lives, while in others, it only takes place at a more advanced period, when they have attained their full growth, and are furnished, at the same time, with a suitable supply of food There are, in this respect, other distinctions. 1. Many kinds of cattle and sheep, which have been bred in hilly countries, will become fat on lowland pastures, on which the more refined breeds would barely live; and, 2. Some animals take on fat very quickly, when the proper food has been supplied, and some individuals have been found, even in the same breed, who have in a given time, consumed the least proportional weight of the same kind of food, yet have become fat at the quickest rate. Even in the human race, with little food, some will grow immoderately corpulent. It is probably owing to internal conformation, that this property of rapid tattening is derived

The advantages and disadvantages of fattening cattle and sheep, at least to the extent frequently practised at present, is a point that has of late attracted much

public attention.

But any controversy on that subject, can only arise from want of proper discrimination. Fat meat is unquestionably more nourishing than lean, yet to digest this oily matter, there are required, on account of its difficult solubility, a good bile, much saliva, and a vigorous stomach; consequently none, excepting those who are in the most vigorous state of health, or who are employed in hard labour, can properly digest it .-Though fat meat, however, is unfit for general consumption, yet experiments in the art of fattening animals, are likely to promote useful discoveries; and though, in the course of trying a number of experiments, errours and excesses may be committed, yet on the whole, advantages may be derived from the knowleige thus to be obtained. As the bone also ga ns but little in the fatting animal, and the other offal becomes proportionably less, as the animal becomes more fat, the public has not sustained much loss by over-fatted animals. Few animals are fatted at more expense to the farmer than the hog, yet to kill it when lead, is ex-ceeding bad economy. An ox or cow, though the lit-tle flesh it has may be of good quality, yet presents, when lean, little but skin and bone; and if slaughtered in that state, would neither indemnify the owner for the expense of breeding and maintaining it, nor benefit the public. A coarse and heavy fleshed ox, which would require a very long time, and much good food to fatten, may be slaughtered with most advantage, while rather lean. It is not, however, so much the extent of fat, as the want of a sufficient quantity of lean flesh, of which the consumer complains; for it cannot be doubted, that the lean flesh of a fat animal, is superior in quality, and contains more nourishment, than any other meat.

Here it may be proper to mention, that indication of a teodency to fatten, which is technically called hand-The graziers and butchers, in various parts ling well of the kingdom, had recourse to the hand, and the feeling of the skin, or cellular membrane, for ascertaining a disposition to fatten; but since Bakewell directed the public attention so much to breeding, that practice has become more generally known Hand ling cannot easily he defined, and can only be learnt by experience. The skin and flesh of cattle, when handled, should feel soft to the touch, somewhat resembling that of a mole, but with a little more resistance to the finger A soft and mellow skin must be more pliable, and more easily stretched out to receive any extraordinary quantity of fat and muscle, than a thick or tough one. The rigid skinned nimal must, therefore, always be the most difficult to fatten. In a good sheep, the skin is not only soft and mellow, but in some degree elastic. Neither cattle or sheep can be reckined good, whatever their shapes may be, un-

The improved short horned breed, besides their mcl-

a gauntness and paucity of intestines should be guard-{lowness of the skin, are likewise distinguished by softness and silkiness of hair. Too great a length, however, ought not to be simed at, since it is not easy in that case, to preserve a due proportion in the animal, without which it cannot be considered perfect.

7. Lightness of offal.—It is also of much importance. that an animal, solely bred for the shambles, should have as little offat as possible, and consequently, a greater proportion of meat applicable as food for man.\*

\* The great perfection of ao animal is, when the dead weight of all the catable parts, approaches the nearest to the weight of the animal when alive. The following statement of the live and dead weight of a Devonshire ox, aged three years and ten months, will explain the manner in which these accounts are drawn

			Stone.
Live weight,		-	114
Offical.	Stone.	lb.	
Tallow,	10	6	
Hide,	6	3	
Head and tongue,	2	9	
Heart, liver and lungs, -	2	7	
Feet,	. 1	4	
Entrails and blood, -	11	13	
,			35

Carcass, or four quarters, Consequently, 10 stones of live weight, produce 6 stones 15lbs. of dead weight, or butcher's meat. Durham's Report, p. 239. The average of other experiments is, fron 6 stone 10 lbs. to 6 stone 13 1 2 lbs. of dead weight, to 10 stone of live weight. When an ox is fed for two years in succession, a much higher proportion of dead weight is the result.

In sheep, on an average, from 10 lbs. of living weight, 6 lbs. 7 ounces of dead weight, convertible into food, may be obtained. Durham Report, p. 251; consequently, in this respect, cattle are superiour to sheep.

#### FROM THE PICHMOND ENQUIRER. THE CROPS.

The following letters, one from the county of Charlotte, the other from the state of Georgia, present very opposite, but interesting views of the state of the present crop in different sections of the country. The truth is, our country is so large—1. that if the crops fail in one part, it succeeds in another, and thus the superflux of one tends to relieve the deficiency of the other; -2. It is besides so well intersected with water courses, and assisted by coast navigation, that the bread stuffs of one district are with comparative ease and cheapness tran ported to any others;—3. We have also this advantage, superiour to almost every other country in the universe, that we bave different bread stuffs for the support of our countrymen. If the wheat harvest fails, we may obtain relief from the corn crop, and rice versa. Whereas the countries of Europe, depending upon one principal source of supply, are liable to many and serious inconveniences from the failure of their harvest. But famine can scarcely ever approach our doors.

#### TO THE EDITOR

Monticello, Geo. Aug. 20, 1819.

The prospects of the agriculturalist were never more flattering in this country, particularly the new purchase of Georgia. Corn and cotton unusually luxuriant, and should the continued rains not produce the rot in the latter, a very abundant crop will be made. forn, it is supposed, will not command more than \$1.50 per barrel from the stack; though last autumn it was worth from \$1 50 to \$2 per bushel.

### TO THE EDITOR.

Dated Charlotte, Aug. 19, 1819.

In answer to your request of the 10th inst. I propose to give you some account of the very fatal drought in this part of the country, and of our prospects for a crop,

average crop.

became excessive, that the quality is good, but had the desired effect there was not much seeded; there is, however, an

average crop of wheat.

should do more for it than we can well calculate per: nevertheless, I shall state facts as I progressed upon, will not be much over half an average crop and in some neighbourhoods, as I am informed (for gin with the seed or berry, to wait two years for I go very little from home, they cannot possibly their regetation, as my worthy friend and neighmake bread. I have a son and a nephew just re bour William Armor had effectually experienced, although I should treat it something different, if turned from a visit to the Missouri; they say mine in his practice of cultivating from the seed of the is the best crop, that they have seen off the rivers, Newcastle thorn, I had recourse to another expe this side of Lexing on, Kentucky, and that in their dient, that hastened the business, by digging up opinion, numbers of farmers will not make more the natural stocks than a p ck of corn to the acre.

quality.

on a branch which we have always been able to and the others in proportion constantly dry, and no chance to water it.

G. S.

FOR THE AMERICAN FARMER.

## On Hedging....No. 4.

fence

the sickle, on a piece of elevated ground inclining had been at the business before me.

I will premise what I intend to write by inform-southeast, and facing the public road, attracted ating you, that I have lived on this plantation, in the tention, and it may reasonably be supposed, that neighbourhood of Charlotte court house, forty-one I was gratified not only with the ornamental apyears, the greater part of which time, I have kept pearance but the safe guard to so valuable a proa memorandum of remarkable events; such as duction, to see my efforts for a series of time crown droughts, uncommon a ci spells, great freshes, early ed with success. But there was another consideand late frosts, &c. This year has been uncom ration in the outset, that I had in view that of castmonly dry, ever since early in May, so that the oat ing some light on the subject, if successful, for the crop has come in very short:—I think not half an benefit of others. I was now gratified on finding my neighbourhood becoming noted for hedging, and in every attempt at raising a hedge in this way, Wheat had so far made itself before the drought and am fully convinced, that occular demonstration

A farm well hedged, and carefully trimmed annually, in each district of the country, in public The corn crops, unless the refreshing showers situations, would spread the propagation of hedgwe have had now for three days in succession, ing abundantly more than all that I shall say on pa

Beginning in 1800, not having patience to be-

After cutting away the top, with a handsaw Of the tobacco crop, I know not how to speak hear to the ground, the root was readily taken up I will just describe my own to you We have not with a grubbing hoe i hose stocks were such as had a good season for planting since early in May, have arisen from the birds dropping the seed in until this week, and it is now quite too late to plant waste land, that have remained a number of years We have and two slight seasons since May, one the out of cultivation, and on the outskirts of timber tenth June, the other the sixteenth July. We land, where the plough has not disturbed them, GRASS SEED but am not certain that the quality is made out to get about 150,000 planted; much of they get some growth. I was not particular in good. In the year 1815, some seed were procurit would live about a week and die I here is now size, but took them from the size of a goose quill, ed from Judge Toulmin, of the (now) Alabama about 30 000 hills entirely missing, and from 20 to an inch, or even two inches in diameter, when Territory to 30 000 more about as large as it was when | cut off the tops; after trimming the long spread | seed were planted in drills, about three feet apart, planted We have planted, watered and covered ing roots to a moderate size, there was about one and tolerably thick in the drill. The ground was a considerable part of what is now growing. We hundred perches planted that spring, as early as very rich and in good order, containing about the have some right likely tobacco, and think if no dis-the frost would admit. The season being mode-leighth of an acre. The seed did not sprout above aster happens to it, we shall make better than half rately wet, they all grew without fur her trouble, the ground until about the first of May; the sprouts a crop. We are beginning to house; it is of good and put out a number of suckers or sprouts, from and shoots were not of strong growth. I had them each stump, shooting from six inches to a foot that thinned to one foot in the drill, and well hoed N. B. I have a plantpatch, an old standing one, season forming a thick head from the strong stocks twice by the tenth of June; at this time the wea-

ever saw, until this summer. It has been almost hedge, not yet knowing that any thing further was least three feet high, and continued to grow very requisite, till they came to maturity; therefore, I well alterwards during the whole year, which was, let them shift for themselves two or three years, or what is called a vet year. The blades and stalks longer, until they became matted about the roots of the grass continued tender and rich, and was with grass, by which mistake, my hedge was re- eaten freely by horses and cows, until about the tarded in growth considerably. My neighbour last of July, when the stalks became large and the ter ploughing two or three furrows to the roots, either horses or cows. I did not attempt to make 1 came to a conclusive decision about the year by the assistance of the spade, the grass was all hay of this grass intending only to get a good 1800, to try an experiment—first forming an idea completely covered, and this ought to be done by stock of seed. The grass grew nearly ten feet of such a hedge as my imagination presented to rigging from the bottom of the turrow to throw high and completely covered the ground. Some be a view of a complete one; then began to pro up clay or the under soil, that is not so subject to bunches I cut off as near the ground as I possibly pagate and cultivate with that design, until I have produce grass or weeds. By this means, my hedge could, in the month of August, and so rapid was accomplished the object fully to my expectation assumed a thrifty appearance that season, and, no the growth, that in September the bunches so cut first on a smaller scale, but extending it to a more doubt, grew as much as it had done the two years off were equally as high as any other bunches. general purpose; I found the utility as well as the previous. After this I renewed the dressing every There was no appearance of the grass seeding, practicability of the change from a dead to a living year until the hedge had obtained a sufficient until about the first of October. No frost fell

equ 1 leight with the enclosed grain, maturing for tion on the various attempts making by those who sprouted ea ly in April and was entirely destroyed

Nature seems to direct the sap in the greatest flow upwards in all productions; assuming an upright posture, the thorn amongst others has that propensity, and in its natural growth, as the upper branches take the lead of the sap and grow accordingly, the lower branches become weaker in proportion, and ultimately the undermost decline, as the upper overspread and flourish. This is evident universally with that shrub, as well as many others; even if cut to prevent their rising too high, they still make a vigorous effort to shoot out at the top, and the upper part of the hedge spreads too wide in every instance I have seen, and consequently became weak below from the branches being too much spread, making open spaces near the ground.

But, finally, I preferred plashing, or laying the main stock or body of the thorn, which I have uniformly adopted in every case, although I should be pleased to see a further attempt at the upright plan, ever I make the attempt, and if so the result shall

be knuwn.

FOR THE AMERICAN FARMER.

ON THE CULTURE AND PROPERTIES OF THE GUINEA GRASS.

Brownsville, S. C. Sept. 2, 1819.

DEAR SIR,—I enclose you some of the GUINEA n the month of March, 1816, these ther was very wet and rainy for at least fifteen water in the night or morning the driest spell | 1 readily saw that I had ground work for a days; at the end of which time my grass was at William Armor rectified me in that mistake Al blades harsh, and were not relished so well by trength to put into form for its future destiny, - this year sufficient to kill vegetation, until No-And as it regards the ornamental part, I had not his part of the business I had not determined on bember, and I saved about half a peck of seed. taken that into consideration, until 1816, having alas I found a variety of opinions prevailing, some The seed having lain a long time in the ground field sown with the red challed bearded wheat, that for plashing but mostly for an upright standard as this year without sprouting. I believed that I ought kind having a rich looking tint on the approach of nature had formed it, to take that course. I was to have planted them earlier. In the month of harvest, and heig hedged and the hedge nearly und sermined two years, which course to pursue. February, 1817, 1 again planted the same lot of sho n or trimmed—the lively green hedging of until I could satisfy my own judge ent by observa | ground, as I had done the year before. I he grass

by frost. There came up, however, some plants

from the seed, which had remained on the ground like, on the trees, lengthwise the rows; cause them to ture of the country at large; that the fifty cent On the fifteenth of March, 181, I planted the same lot of ground, after having it well manured; the seed were bad, and I had again only a few bunches of grass growing; I therefore delayed useful, it ought to be generally known. gathering the seed as late as possible, thinking they might come to full perfection; but in this I was deceived; for, upon gathering the seed found only a few of them good. In the month of March last, I again drilled a small spot of ground and very few of the seed sprouted, but some seed which had dropped from the -talk last autumn sprouted; these I have transplanted into my garden, where they grow well. W en I gather seed this year. I shall endeavor to procure good seed by shaking the stalks daily over some sheet or other cloth, by which means, the ripe seed may be ga thered, as they come to perfection. I am induced to believe, from the experiments which I have made, that the seed remain upon the stalk a very short time after they are ripe. I should have men been unusually dry in this part of the country. to ens, far superior to any brought to market; yet which circumstance, I attribute my want of success. I hope that this grass may flourish with the country with the country was added, that if I would the essential remedy; and, though the disease most remedy and, though the disease most remedy is and, though the disease most remedy and the country and the country affected, causing several excuses and apologies were made for the country. The was added, that if I would be essential remedy; and, though the disease most remedy and, though the disease most remedy is an except that the later has the country affected it country. tioned heretofore, that the two last years have you, but I fear your climate may not sait it well I think if you cultivate the grass, it would be advisable for you to adopt the plan recommended by Dr S. Brown or as you would obtain tobacco plants from a plat of ground. I have endeavoured every winter to prevent the roots of the grass be ing killed by frosts, but have not succeeded. The others; that he had given some years ago, from roots are very large and strong, spreading to some distance, and not easily rotted. It impoverishes land very much. I cannot, however, lorbcar mentioning, that when the seasons are suitable, the seed good, and the land rich, that no grass can be be would get for their wool, he could now with so highly inflammatory, in which light the author cultivated which will so amply reward the labour difficulty procure fifty cents. On asking who purof the husbandman.

### OCCASIONAL EXTRACTS.

To the Editor of the American Farmer. DATED CHESTER, S. C. SEPT. 11, 1819.

As cattle, the dairy, and the like, are interesting subjects to the farmer, we would wish to know sometimes what is improper for milch cows, as well as what is proper. We have been informed, for instance, that oats in grain or meal, and even out straw, was injurious eleven dollars; -yes, two yards and a quarter make to cows giving milk, causing the milk to dry up, as the common expression is, or to diminish in quantity, even when they are well fed with it. What little experience I have had, appears rather to confirm the idea. Perhaps yourself, or some of your correspondents, from better experience, can confirm or refute the idea.

As I have seen by a little experience, and have been informed by others, that there is a way which appears rather singular, to expedite the growth of young fruit trees, more particularly the apple tree, while in the nursery, and not having yet seen mention made of it in your paper, I will give you a general idea of it, and per haps some other person, or myself, can give you a more

particular description of necessary.

The trees growing from the seed, in consequence. as I suppose, of the small quantity of root, grow slow-

throughout the winter; these I transplanted (but bend pretty short near the ground, and they will put wool, the eleven dollar broad cloth, the promised did not separate the roots) into the richest part of forth a shoot at the bend, that will be larger the first authe lot; it grew badly this year, not exceeding be proved by leaving some in their original state and po tumn, than the main stock would have been, which may five feet in height; some of it seeded this year, sition; but the old stock should be cut off, as well as any ing for the present state of things amongst us. much earlier than it had done the last; but having supernumerary shoots, during the first summer after only a few bunches, only a few seed were saved, being bent in the spring. I send you this, in the way of I will take for granted, if you give this a place in intimation and inquiry, so that if not yet within your knowledge, some person better qualified than myself may be applied to, to give you information on the subject, as to the reason of the thing, as I think the innovation is

I have not entirely read all your papers, but have seen as good descripsion of cheese-making; if you Extracts from a Compendious Dictionhave not yet published any, I hope some of your correspondents will communicate some useful essays on the subject.

P. S. I omitted to mention to you, the crops in this part are very abundant, particularly wheat and cornprice of wheat, 75 cents per bushel, corn not yet gathered, but expected to be from 37 1.2 to 50 cents.

#### DOMESTIC INDUSTRY.

Baltimore, September 21, 1819.

Mr. SK NNER,

The dinner consisted of excellent ham and chickwere making for killing a very fat merino sheep lowing drink, as a purgative, that evening. On expressing my surprise to hear that a merino sheep was to be killed, my friend observed that they were no eet er to him than one to three hundred dollars a piece for the breed. expecting to make a fortune by them; but like many other projects it ended in smoke:-instead of a dollar and a half which he was made believe tency of giving a large dose of ginger for a complaint chased it he said that he understood some bought chased it he said that he understood some bought it for exportation, and small quantities were applied to domestic manufactures; but, added he, I believe that business is nearly done of the Ithen The remaining until the desired effect is obtained." asked, why he did not get his own woll manufactured for the use of his own family? He replied tured for the use of his own family? He replied bark, aniseeds, caraway seeds, treakle, and vinegar; it was too much trouble, and when done did not if the fever still increase, this wonderful drink is to look so well as imported cloth. When I want a be omitted, and a powder given every morning and evencoat, continued he, I just go to the store, buy the cloth and pay for it. Pray what did you pay for the cloth in that coat? I think, said he, it was my coat. and the outside of this one cost me twen- We are then directed to rub the swollen parts with the ty four dollars and seventy-fi e cents. Here my following mixture: lriend was reminded by his wife, that he had for gotten, the last time he was in town, to purchase the silk dress he had promised her. My dear, said the husband, I did not forget it, but money is become so very scarce, that really I had it not to spare. This apology excited a female nod of the We are then told, if the tumefied parts are gradually

silk dress;—and above all, the death of the merino sheep, would go a considerable length in account-

Should you, Sir, he of the same opinion, which your valuable paper, you shall hear again from Your's, respectfully.

COGITATIVUS.

# ary of the Veterinary Art.

[Continued from No. 25-p. 195.]

BLACK LEG, OF QUARTER EVIL. A disease incident to young cattle, from one to two years of age. Many oames have been given to this disease, just as unmeaning as that we have chosen from them: the symptoms also have been variously described. writers seem to attribute it to putting young animals of blood is generated, and the system too powerfully excited. The first symptoms are an appearance of heaviness and disinclination for food. Having occasion to go some distance, one the animal, a swelling may be observed in some part day last week into the country, I call d to see an of the body, generally beginning in the legs and proold friend, who insisted upon my diving with him. ceeding upward. On feeling the swelling, a crackling may be perceived under the skin; the swelling be so kind as to stay over night. I should dine commonly proves fatal, it appears probable, that bleednext d y on some excellent mutton, as preparations ing largely on the first appearance of the symptoms will often prove effectual Clater recommends the fol-

"Take Glauber's salts from eight to twelve ounces, ac-

cording to the animal's strength. White antimonial powder, one dram.

Camphor, one dram.

Anisced and ginger, of each one ounce.

Treakle, four table spoonsfull.—Mix for one drink."

It is needless, perhaps, to point out the inconsiscertainly considers it; for he adds, "this will be found a powerful drink in removing those inflatomatory The same author directs, after the annual has been purged, a curious farrago composed of alum, nitre,

Tincture of opium, of each two drams. Camphor, and Antimonial powder,

Nitre, four ounces. Vinegar, one quart. Oil of vitriol, one ounce. Tincture of opium, two ounces, Camphorated spirit of wine, four ounces.--

head, not expressive of much satisfaction. I proceeding to a state of suppuration, a mixture, which head, not expressive of much satisfaction. The calls emollient oils, is to be used, containing several highly stimulating ingredients; such as oil of the calls emollient oils. so ree where merino wool sold for fitty cents per turpentine, water of ammonia, (spirit of sal ammonia, pound, and broad clo hs cost eleven dollars per niac.) opndeldoc, and tincture of opium. To finish yard; and, to keep clear of silk dresses, imme this elaborate medical discipline, we have a preas I suppose, of the smart quantity of 1000, \$1000. It is suppose, of the smart quantity of 1000. It is suppose, of the smart quantity of 1000. It is suppose, of the smart quantity of 1000. It is suppose, of the smart quantity of 1000. It is suppose, of the smart quantity of 1000. It is suppose, of the smart quantity of 1000. It is suppose, of the smart quantity of 1000. It is suppose, of 1000. It is suppos

into the folio yard, and lose from two to three quarts method of preventing this disorder, which, however of blood, according to their size and strength. Let them absurd it may appear, is said to be generally practised be kept there till next morning, and then take one of in Cheshire and Staffordshire with success. "The the following drinks." The author does not inform animal having been properly secured, an incision is ly invented four wheeled carriage, which lately excited us which of these drinks is to be preferred, and some made in each foot, beginning at the division of the so much interest in Scotland Upon inquiry, we find readers may perhaps feel puzzled in making a choice, claws, and extending from two to three inches up that its properties are, cheapness in the construction, as each contains one very palatable ingredient; in the ward; a blueish vessel [vein] is then seen; which is first one ounce of brown sugar-candy is directed, and to be drawn out by passing a crooked needle under in the other, a glass of common gin! Many farriers it, and cut off with scissors. The wound is first dresswould doubtless prefer the latter. Mr. Skerrett gives ed with escharotic powder, afterward with digestive the most perfect ease; and, by a singularly ingenious rather a different description of the disease. "The ountment." In what manner this curious operation contrivance, the horse can be, in the event of an accirather a different description of the disease. discase begins on a joint of the leg or tingn, and can prevent the disease in question, it is not easy to some imes in the foot; it is first discovered by a magine; if they who confide in its efficacy take care lameness of the animal, and the part when examined not to breed their young cattle too hastily, or, as Mr. Lawrence expresses it, "not push them too forward has made its way through the skin and flesh. Its production," the mystery will cease. Such a variety gress is to rise upward, and to spread over that quarters which is first spiral when it rises to the hack propagate to conferred on this disorder, that it jerks; but in this, the effect is a complete swinging or discase begins on a joint of the leg or thigh, and can prevent the disease in question, it is not easy to dent, instantaneously relieved from the carriage by the ter which is first seized, when it rises to the back appears necessary to give a list of them, which is and kidneys, it then proves quickly fatal." "Bleed-taken from Mr. John Lawrence's Treatise on Cattle: ing," he adds, "is the principal remedy to be de-Shewt of Blood-Vomin of Blood-Blood in the Backpended on, and should be carried to the same extent Blood in the legs, or Crutench-Blane in the tongue, or, as in active inflammation; the state of the parts is not Overflow of Blood-Striking in, or Rising of the Bloodto be omitted, and scarifications so as to unload the Higham, or Iron Striking-Joint Murrain, or Gargetvessels, will be of great service; after this, the parts Black Quarter-Quarter-Evil - Black Leg. should be dressed with equal parts or common salt and nitre, finely powdered by which means, suppuration will be induced, and a check put to the disorder.' He advises at this period fomentations; and observes, that clearing the howels must not be omitted. His preventive remedy consists in giving the following powder two or three times in the year, to young cattle placed in rich pastures, and bleeding each time;

Flowers of Sulphur, four to six ounces. Nitre, one ounce.

Grains of Paradise, two drams. Mr. John Lawrence, in his Treatise on Cattle, ob serves, in speaking of this disorder, "prevention of this malady is the only cure worth notice; because after the attack, the very nature of the disease renders all remedy either uncertain, or of very little profit, even if successful, on account of the expense of time and money. With this view the young cattle should not be pushed so forward in condition; and indeed the same precaution may be useful in some degree with respect to the full aged. A piece of short or inferior keep should he reserved as a digesting place, in which the cattle may be occasionally turned to empty and exercise themselves." Lawrence advises also an alterative powder, composed of sulphur and antimony, being given daily for a month, and two rowels or setons in each breast. We think Mr. Lawrence's advice upon this subject very reasonable, but consider the medical part of it unnecessary. In the fifth volume of the Farmer's Magazine another plan is communicated by a practical farmer, suggested to him by a skilful blacksmith, which he asserts has often succeeded; but as the paper is anonymous, and the plan apparently absurd, we do not feel inclined to credit his assertion. "The neck: he then pulled the skin from the flesh on the side that was most pained, still keeping the beast walking as much as possible; he then caused cold water to be poured in large quantities on the part affected, still rubbing and keeping the skin loose on the affected part; he then made three cuts with a pen-knife, each two inches long, into which he rubbed salt and water; in this manner he continued four hours; at one time priving him, then pouring on water, loosening the skin from the flesh, and rubbing in salt; by this time he was not near so cripple, and began to take his food, we were ordered however to keep him in motion all night, and in the morning he was well for his food, and never had a return of the complaint." The practical farmer says, he followed the blacksmith's practice with success, only, instead of pouring water on the part, he put a rope about the beast's head, and made him swim in a deep pool; he then drove him about and gave from half an ounce to an ounce of laudanum: but never opened the skin. He observes, that he never knew an animal recover from this disease when left wholly to nature, and that it is more difficult to cure in the hind than in the fore-quarters. The fatality of this disease renders it a subject of great importance to breeders of cattle, as well as to farmers in general: this consideration has induced us to treat of interest in the subject of great importance to breeders of cattle, as well as to farmers in with importance to so large a district of country, will stead of one, which sifts the plaster much more regunstrated it at some length; it may not be amiss however, into effect.—Raleigh Reg.

pearance upon one of the herd, let them all be brought before we conclude this subject, to describe another

[To be Continued.]

# Internal Improvement.

ROANOKE AND TAR RIVERS.

Mr. Fulton, the State Engineer, has returned from his visit to the Roanoke and Tar rivers, and has furnished a report on each to the Commissioners of Navigation, In the prosecution of the works on the former he suggests some important considerations for the Naviga tion Company; and in respect to the latter, he points out to the company, the best mode of effecting the proposed navigation; in which he finds little difficulty

Mr Fulton set out on Wednesday, for Cape Fear: and after inspecting the works carrying on there, he will visit the Padee, Yadkin, Catawba, &c. after which he will probably take a view of our sea coast,

Since writing the above paragraph, we have been fa-

Engineer's late visit to Tar river.

Fulton, descended the river from Lewisburgh to the much improved Little Falls at Battle's Mills, one mile below the Great Falls. The low state of the river, afforded an opporcles, presenting fine, still, deep water, navigable at all to project over the axle ree 2 1 feet behind; to the ends

and of that section of country, from joining cordially the box, tapping the box fast or slow, hard or easy, a change of opinion on this subject.

NEW INVENTED WHEEL CARRIAGE.

Liverbool, July 2.

ease in the travelling, and nearly a total evasion of duties and tolls. By a great mechanical improvement. in the axles, one horse performs the work of two with canting motion, elevating and depressing, so that under any shock that it can be liable to, it would be impossible to unseat the driver. This singular vehicle has undergone some repairs by some of the coach makers of this town, whom we do not particularize, as it would subject us to the advertisement duty. The following paragraph is on the same subject

On the 8th inst, a commercial traveller, from London, in a newly invented four wheeled carriage, was stopped at the toll-bar of Brachelston, at the head of Greenock, on account of refusing to pay the rate exigible for a gig. He offered the sum payable for a wagon; but, as this was refused by the toll keeper, the matter was brought before the justices of the peace. who decided that the carriage was not a gig; that it was only liable to payment of the rate offered; and found

the toll-keeper amenable in expenses.

[Scotch paper.

PAPERS COMMUNICATED TO THE AGRICULTU. RAL SOCIETY OF VIRGINIA.

Nottoway County, Feb. 15, 1819.

DEAR SIR-Feeling a great desire, that the use of clover and plaster should be more hastily brought into general use, by way of promoting the improvement of voured with the following particulars in relation to the our much injured soil. I transmit you an easy method agineer's late visit to Tar river.

Of applying the plaster, perhaps not known to the SocieThe President and Directors, accompanied by Mr (y, which is a project of my own, and perhaps may he

The plan is as follows:-have a common pair of tumbrel cart wheels, the length of axletice to suit the box or tunity of observing every difficulty to be surmounted width of rows or beds, (my beds are six feet wide,) and Many parts of the river are perfectly clear of obsta-have a pair of shaves pinned on the top of the axletree, seasons; and a few locks and dams being erected in the of those shaves is to be swung with a rope, or a pair of other parts, and the logs and rocks removed, will render traces, a box about a foot from the land, made as folthe whole navigable. And as the erection of the dams lows . six feet long, one foot deep, fifteen inches wide at will afford fine situations for valuable mills, the dis lop and eight inches at bottom, with two partitions, so as posal of them would go towards defraying the expense to make the box in three equal divisions, the bottom of the work. The distance from Lewisburgh to these to be covered with wire, wove a good size finer than a first thing he did was to take a little blood from the falls by land is 37 miles, by water it is estimated to be 50. hand sieve, for getting cockle out of wheat, that nail-From the head of the most important fall, (Good-ed to the bottom of the box, and supported by a narson's) a canal may be cut into the river below all the row strip of wood lengthwise, and several crosswise, Falls, at a much less expense than has been heretofore so as to regulate the sifting of the plaster per acre; a est.mated. From thence to Tarborough the river was not notch to be cut in the edge of the middle division, one examined, but it is understood to be passable by boats at inch deep and three wide, to rest a staff on, to keep most seasons of the year; and beyond Tarborough the it in the right place, which staff is to be handled by a charter of the company does not extend. It is believ fellow walking after the box, and striking the farther ed, however, that there are obstacles in the river be side from him with the end of the staff, and the side of tween Tarborough and Washington, which must be the box next to him, with a pin fixed in the staff, which removed before the river can be navigable with ease, will be described her after. This box is to be carried And it is to be regretted, that local prejudices should by a gentle horse carrying the wheels and box, rode have heretofore prevented the citizens of these towns, by a small boy to guide him, and the hand attending in effecting so desirable a work. We trust, however, so as to regulate the sowing of the plaster. The staff that time and more correct information, will produce to be made as follows; - about 7 feet long, the size of a common hoe helve, except at the end resting on the We are pleased to hear that the citizens of Nash box, about 10 inches of which may be 2 inches diacounty, are becoming more favorably disposed to meter, with a pin fixed in it, so as when the hand using wards the opening of the river, from a belief that the it, draws it back, to strike the farther side from him; plan is practicable. Mr. Lamon, one of the repre the pin may strike the side next to him; this sentatives of that county, on passing his house not may be fixed in by boring an auger through the only shewed the Engineer and Directors much attended the staff, but very moderately crossed, and fixing a good tion, but joined and accompanied them to the Falls, sturdy pin fast in it, to shew about two inches, and by manner of describing this instrument, but you may beftre of communication, instead of gathering light from all well assured, it answers a very good purpose, as the la-her surrounding sisters, and making herself the focus of bour is very light, the plaster saved from blowing away, enlightened policy, seems satisfied to continue the victim put in more regular and with much more dispatch, where of narrow jealousies; torn by local conflicts and party the land lies well and clear of stumps, &c. A hand, horse strife, her several sections seem to have realized the fate and boy, can plaster from ten to twelve acres per day .-If the project cannot be understood from this, I hope short mosity, they have fought against each other without any ly to attend one of the meetings, when I hope to have the other benefit or satisfaction, than that-of eating each honour of becoming a member of the society, or I will other up. have a box made, and sent for the use of the society.

#### Your's respectfully, EDMUND IRBY.

P. S. I send you a small sample of the staff cut out

To the Secretary of the Agricultural Society of Virginia.

#### ECONOMY AND MANUFACTURES.

At Cincinnati, the citizens have carried into effect their previously expressed determination, to the following declaration grounded on the opinion, that a retrencha ent in the expenses of living, will The following extract from that valuable publication, hour. A list or catalogue of the several articles, and of the names of the owners respectively, will be made and that a retrencha ent in the expenses of living, will and pecuniary embarrassment of the country.

our families, any imported liquors, fruits, nuts, or make a like exhibition? preserves of any kind, unless they shall be requir-

ed in cases of sickness.

Being convinced that the practice, which genesanction it hereafter in our families, or encourage it in others

We will not purchase any articles, either of food or dress, at prices that are considered extravagant, or that the citizens generally cannot afford to pay; but will rather abstain from the use of such articles, until they can be obtained at reasonable prices,

We will observe a rigid economy in every branch of our expenditures, and will, in all our purchases, be influenced by necessity rather than convenience,

and by utility rather than ornament.

We believe that the prosperity of the country de pends, in a great degree, on a general and faithful observance of the foregoing declaration-we therefore promise that we will adhere to it ourselves, and that we will recommend it to others."

It would be well for the country, if associations similar to that at Cincinnati, were formed in every town and village throughout the states.

#### J. 191 137 FARMER.

BALTIMORE, FRIDAY, SEPTEMBER 24, 1819.

"Go thou and do so likewise" - Our sister states, on the right and on the left, are vieing with each other in giving encouragement to agriculture. Maryland, the cenof the Kilkenny cats, actuated by an eternal spirit of ani- F

Hog laws, and goose laws, and lottery laws, and bank laws, and insolvent laws, appear to make up the Alpha and Omega of the Maryland statute book. Is it not time that something was done, for the farming and planting of a card, and a sample of the wire to cover the bottom of the box, only a half bushel to be put in the hox at when men of the box, only a half bushel to be put in the hox at when men of the box. when men offer their services for that most dignified (when well exercised) office of law-making, the people of the state will inquire not so much- are you a federal, an aristocrat? a republican, a democrat? but, what will you The foregoing premiums will be paid in suitable pieces do to aid the cause of the plough? What will you do to of plate of the value of the several premiums, or in cash give intelligence and profit to the labours of the agricultur as determined by the managers. The society will meet at rist? Will you appropriate a part of the revenues of the Barney's on the first day of the Fair, at half past eight state, as premiums to be distributed in each county, as an incitement to exertion and a premium to excellence in all managers and officers of the society will meet at the Flag the branches of rural economy. In the state of New York, ten thousand dollars have been divided amongst first day of the Fair. form a society for the promotion of agriculture, the agricultural societies of the different counties, to be manufactures and domestic economy. General distributed in this way, and the rivalry thus excited, pro-notified to deposit their several specimens or pieces of HARRISON is the President of the society. They mises to give a new aspect to the whole state, and the cloth, at the store of Albert Richards, in River-street, closed their proceedings on the 23d ultimo, with money thus taken from the treasury of the people, will be near Gray's tavern, at or before 12 o'clock of the first day reimbursed ten fold by the increased intelligence, wealth, of the Fair, where a suitable room is provided for their and power of the state.

some idea of the effect of legislative encouragement in one kept by Mr. Richards, but will not be disclosed to the "We will not purchase or suffer to be used in county alone. Why might not every county in Maryland judges, or to any other person, until after they shall have

## RENSSELAER AGRICULTURAL FAIR.

A public Fair, for the purchase and sale of horses and cattle, and all animals, articles and goods, the growth, rally prevails, of wearing suits of black, as testi-produce, and manu actures of all countries, will be held anomials of respect for the memory of deceased on the common, south of Hoosick street, and east of River-to meet at the Fiag stan, at 10 o clock precisely, on the second Tuesday of Oc. second day of the Fair, and will form a procession from it is attended with a heavy expense, we will not ober next, commencing at ten o'clock, A. M. and to be continued for two days, under the superintendance of the Board of Managers of the Agricultural Society of the county of Rensselaer. And that, conformably to a reso-We will not purchase, for ourselves or our fami-lution of the said Board, premiums will be paid on the lies, such articles as are expensive, and are gene-animals mentioned in the following catalogue, which shall livered or paid, and where, immediately thereafter, an rally considered as ornamental rather than useful have been raised within the county, or owned within it, We will abstain from the use of imported goods, by the person presenting it, for the term of the last preof every description, as far as may be practicable; and we will give a preference to articles, that are and we will give a preference to articles, that are said county, from wool or flax raised within it, and which at the Flag stall and booth on the Fair ground, from 10

For the best yoke of Fat Oxen, - best Yoke of working oxen	20 dollars.*
second best do. do.	5
best Fat Cow	19
best Milch Cow	10
second best do	5
best bull not exceeding 4 years old	10
second best do	5
best heifer 2 years old last spring	10
best heifer I year old last spring	5
best six calves raised for stock on	
any one farm, by one person -	6
second best do. do.	4

#### HORSES.

For	the	hest	Stud	Hor	se		-		_		15	
		best	breed	ing	Mare	-		-		-	10	

#### SHEEP.

For the	e best flock	of fine v	vool s	heep,	not	
	less tha	n twenty	<i>r</i> -	-	-	10
	best do. c	ummon č	lo.	do.		10
	best pair	of ewes o	of the	Leic	ester	
	breed	-		-	-	10
	best ram	υf		do		10
	best Meri	no ram	-	-	-	10
	best comm	non do.	-	-	-	5

#### HOGS.

	best sow not less than 2 years old	5
	best fat hog, dead or alive .	10
	WOOLEN CLOTHS.	
10	the hest piece of superfine Broad cloth	
	not less than 20 yds, long and 6.; broad	25
	pest piece of narrow cloth, not less	
	than 20 yds. long, and 3-4 broad	10
	best piece of fine Cassimere, not less	
	than 20 yds. long and 3.4 broad	10
	best piece of Sattinette, not less than	
	90	

For the best boar not less than 1 year old

LINEN CLOTHS. For the best piece of Linen Shirting, not less than 25 yds. long and S-4 broad best piece of Diaper, not less than 25 yds. long and 3.4 broad

20 yds long and 3-4 broad

o'clock precisely, to make arrangements. The board of

staff, on the Fair ground, at 10 o'clock precisely, on the

The several competitors for premiums on Cloths, are reception - and no competitor will be admitted after that been examined by the judger, and the premiums deter-

The judges of awards will proceed at 12 o'clock of the first day of the Fair, to examine the several articles offered for premium. And the competitors for premiums and the members of the society, are also respectively noticed thence to the court room in the court-house, or to Mr. Coe's church, as may hereafter be determined by the committee of arrangement, and of which notice will be given on the morning of that day or before, where the judges of awards will make their report, and the premiums be deyear, will be held, agreeably to the pruvisions of the con-

The Recording Secretary and Treasurer will attend and we will give a preference to articles, that are said county, from wool or flax raised within it, and which of the growth and manufacture of our own country may be offered for sale or shewn at the said Fair. — P M for the purpose of admitting members to the society, and delivering diplomas.

Those persons who have had subscription papers in charge, are requested to return them to the Recording Secretary or Treasurer, on or before the first day of the Fa.r. GEORGE TIBBITS, Pres't. (Signed)

HENRY HOYLE, Rec. Sec'y.

Troy, . lugust 19, 1819.

N B. As the funds of the society have considerably increased since the above selections for premiums were made, it will therefore be recommended by the committee to the board of managers, to award premiums on animals and articles not enumerated, which may be deemed meritorious.

SALES OF VIRGINIA TODACCO-made since our last, by W. McDonald and Sons-I hhd. S9 50, 1 at S7 50, 1 at S9 25, 1 at 88, and 1 at 7:0, all separate sales at 60 days

MARYLAND TOBACCO-a sale on Monday of two hogs heads, made by Mr. Crane, in Calvert county, good quality, at \$10 and \$12. Wurat 1600 bushels, Virginia red wheat, sold on Monday at \$1 04. A large supply of wheat has accumulated on the hands of the midlers; the mills being stopped by a drought, exceeding any recollected by the oldest inhabitants. It is supposed, that the price will improve, when the stock on hand shall have been ground up. Rye, 50 to 52 cents - Oats, 40 to 42 cents. -- North Carolina beans, per quantity, SI 50.

# PRICES CURRENT

#### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Curefully Revised and Corrected		9 1 114	
ARTICLES.	rER.	RETAIL	PRICES
BEEF, Northern mess) -	bbl.	15	
No 1 wholesale.		123	
No 2 ) -	lb.	t0⅓ 16	
Bacon, Butter, Ferkin, wholesale	10.	18	
Coffee, first quality,		33	
second do		27	28
Cotton,	\	17	
Twist, No. 5,		41 75	45 46
No. 6 a 10, - No. 11 a ±0, -	ĺ	53	40
No. 20 a 30,	ĺ	75	ĺ
Chocolate, No. 1,		83	
No. 2,	ļ	28	
No. 8,	box	25 20	22
Candles, mould,	UUA	18	19
spermaceti,		45	
Cheese, American,	lb.	10	15
Feathers,		60 3 50	
Fish, cod. dry herrings, Susquehannah,	qtl. hbl.	nl.⊻ 50	•
mackarel, No. 1 a 8		6	9
shad, trimmed,	· '	7 75	7 87
Flour, superfine,	. ,	5 50	6
fine,	pp1.	5 4 50	5 50 5
middlings,		4 a	4 25
Flaxseed, rough,	cask	none.	1.20
cleaned,	bush	do	
Flax,	lb.	do	
Hides, dryed,		12 12	15 tS
Hogs lard,		25	80
Molasses, Ilavana,	gal.	45	50
New Orleans, -	,	50	60
sugar house,	gal.	l 1 50	
Oil, spermaceti, PORK, mess or 1st quality, -	bbl.	18 a	19
prime 2d do	١.	15 a	16
cargo 3d do		14 4	15
Plaster,	ton bbl.	5 1 75	
Rice,	lb.	6	
SPIRITS, Brandy, French, 4th proof	gal.	2	2 50
peach, 4th proof		1 25 75	t 50
apple, 1st proof Gin, Holland, 1st proof		1 25	1 50
do. 4th proof			
do. N. England		50	60
Rum, Jamaica, American, 1st proof		1 50 50	2 60
Whiskey, 1st proof		85	40
Soar, American, white,	lb.	18	20
do. brown, -		9	12
Sugars, Havana, white, brown, N. Orleans, -		19 11	12
loaf,		25	28
inmp,	h.	20	a 25
Salt, St. Ubes,	bu.	70	
Liverpool, ground, Shot, all sizes,	iъ.	75 12	1
TOBACCO, Virginia fat,	cwt.	7	
do. middlings,		6 50	
Rappahannock, Kentucky, -		5 6 50	5 50 7 50
small twist, manufactured,	lb.	25	\$7
pound do		50	75
TEAS, Bohea,		63	100
Souchong, Hyson Skin	lh.	75 75	a 100 a 150
Young tiyson,	1	1 25	a 150
Imperial,		1 75	
WOOL, Merino, clean, unwashed, -	1	8(	1
crossed, clean,		6	
unwashed, -	1	35	[
common country, clean,		37	
akinner's,	1	25 33	}
skinner's,	1	, •	-

# RATES OF EXCHANGE.

OF BANK BILLS.

Corrected monthly for the American Farmer.

Branches of the U. States' Bank not able at Baltimore, Boston Banks	par par par
NEW-YORK.	
City Banks	nor
NEW-JERSEY.	par
State Bank Camden	202
Trenton, Newark, and Brunswick,	par dis.
Mount Holly Bridgetown, &c.	1 do.
PENNSYLVANIA.	
Philadelphia,	mon a o 0 4
Stephen Girard's Bank	par a a3-4 par a do.
Chester, Easton, Harrisburg, Montgomer	
Hulmeville, Germantown.	( 413. ~
Carlisle Bank, Chambersburg, Gettysbur York, Lancaster, and Columbia Bridg	g, 1 1-2 a 2 do
Carlisle, (Agricultural)	nominal.
Bank of Pittsburg,	47 1-2 dis.
Westmoreland, Bedford, Brownsville.	
Meadville, Centre, Huntingdon, Milt	on } dominati.
DELAWARE.	
Bank of Delaware,	1 a 1 1-2
Wilmington and Brandywine,	a 1 1-2
State Bank at Dover, and Branche	s, alt-2
Laurel,	0 dull
Smyrna and Milford,	8
DISTRICT OF COLUMBIA.	1
Georgetown Banks,	l dis.
Alexandria Banks, (excepting the	Me- 1 do
chanics and the Franklio.  Mechanics of Alexandria,	20
Franklia of Alexandria,	50
VIRGINIA.	/
Bank of Virginia, Farmers' Bank, Branches,	/
Branches,	and { 1 1-2
Unchartered banks, various	7 1-2 a 25
Saline and Parkersburg	no sale
NORTH CAROLINA.	
State Bank and branches	6 1-2 do.
Newbern and Cape Fear	7 1-2 dis.
SOUTH CAROLINA AND GEORG	
Bank Bills	2½ a 3
0H10.	A2 4 3
Chillicothe, Marietta, Muskingum, Urba	\ \
na, Stubenville, &c.	in.
Mount Pleasant, Montpelier, New Lisbo	n } 15 a 25* 🔍
St. Clairsville, &c.	-'
NECESSARY HINTS TO THOSE TH	AT WOULD BE
RICH.	TI HOOLD BE
Written Anno 1736, by Dr. Fr.	anklin
The use of money is all all	***************************************

The use of money, is all the advantages there is in having money.

For six pounds a year, you may have the use of one hundred pounds, provided you are a man of known prudence and honesty.

He that spends a groat a day idly, spends idly above six

pounds a year, which is the price for the use of one hundred pounds. He that wastes idly a groat's worth of his time per day.

one day with another, wastes the privilege of using one hundred pounds each day.

He that idly loses five shillings worth of time, loses five shillings, and might as prudently throw five shillings into the sea.

He that loses five shillings, not only loses that sum, but all the advantage that might be made by turning it in dealing, which, by the time that a young man becomes old, will amount to a considerable sum of mo-

Again: he that sells upon credit, asks a price for what

the sells, equivalent to the principal and interest of his money, for the time he is to be kept out of it; therefore, he that buys upon credit, pays interest for what he buys, and he that pays ready money, might let that money out to use; so that he, that possesses any thing he has bought, pays interest for the use of it.

Yet, in buying goods, it is best to pay ready money, because he that sells upon credit, expects to lose five per cent. by bad debts; therefore, he charges, on all he sells upon credit, an advance, that shall make up that deficiency.

Those who pay for what they buy upon credit, pay their share of this advance.

He that pays ready money, escapes, or may escape, that charge.

A penny saved, is two pence clear, A pin a day's a groat a year.

### FROM THE AURORA.

Linseed Oil .- Last year and this spring, you obtained \$1 90 a \$2 per bushel for flax seed, and linseed oil bore a proportionate price—say \$1 40 a \$1 45 per gallon.— Now seed is reduced to \$1 25 a \$1 37 per bushel.— Whence this depreciation of your produce? It may be answered with truth, from importation of the oil from Holland and England-whence two considerable quantities have been brought this spring; and this oil pays a duty on importation into the United States, of only 15 per cent.-No protection is given thereby to this agricultural produce, and the prices of the seed and oil are at once prostrated to a rate very injurious to those who purchased at the higher price. Fifteen per cent, duty is so trifling, as to afford you no protection whatever, and you never will be safe in this commodity, till protected by a competent import duty. Call on congress, therefore, to guard your interests in future, by such a duty as will secure to you the home market for this commodity.

### AN EXTRACT.

Agriculture. - I one year raised a large supply of carrot seed, so that I had much left after sowing the next year, and continued to sow from the same parcel for seven years at least; but was surprised to find, as I thought, my ground much impoverished, though yearly manured; for, at the last, though my seeds vegetated, which I thought a sufficient proof of their goodness, yet at last they did not grow well for two or three years, till they were little larger than pipe stems, and were not worth pulling. But as my seeds vegetated, I was wholly unconscious of the cause; however, I finally threw away my seeds and got new ones; and the next planting in the same ground succeeded well; my seeds vegetated quicker, grew thrifty, and produced abundance, and I am within bounds in saying of ten times the size of those produced from the old seed. Now, what is the value of a carrot seed to a carrot? a beet seed to a beet? a cabbage seed to a cabbage?

Doctor Mitchell, it is said, being asked the difference between the yellow fever and other fevers, replied, "The same difference that there is between great .I and

Those of our subscribers, whose subscription com menced with the first number of the American Farmer, and who have paid but two dollars, are hereby reminded that \$2 more are now due for the second half year. Those who shall not have paid said \$2, on or before the 15th day of October, need not expect to get the paper after that day. If the work be worth the money, all real friends to the American Farmer will pay for it according to the terms

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# AMERICAN FARMER.

# RURAL ECONOMY, INTERNAL IMPROVEMENTS, MEVIS, PRICES CURRENT.

" O fortunatos nimium sua si bona norint " Agricolas." . . . VIRG.

Vol. I.

# BALTIMORE, FRIDAY, OCTOBER 1, 1819.

Num. 27.

# AGRICULTURE.

[How astonishing has been the growth of our popula tion, and the progress of improvements of all kinds throughout our country, and especially in the "new settlements!" Those states which were but very lately denominated the Back-woods, and actually abounded with little more than bears, wolves, and Indians, have been cleared, and laid open to the light of heaven, of civilization, and of science; and are al-In some very important respects, Maryland is actually behind Kentucky, so much so, that we are ashamed to present the contrast; and our young sister Tennessee, whose military prowess in the late war, shed a lustre on the whole American family, is now, it would seem, cultivating with assiduity, the arts of peace, and the resources of internal improvement. estimation in which AGRICULTURE is already held, by a people, amongst whom, but a few years since, nothing was heard but the reverberating echo of the woodman's axe and the hunter's rifle.)

Editor.

### FROM THE NASHVILLE WHIG-

The following is the report to the Agricultural Society. mentioned last week; we believe it will be read with that interest, which the importance of the subject to which it relates, demands.

The society adopted a resolution requesting the editors of the papers in Nashville, to publish this report, and with which we cheerfully comply. Perhaps it would be rendering a service to the agricultural community, for editors in the state, generally, to publish this re-

To the President, Officers, and Members of the CUMBERLAND AGRICULTURAL SOCIETY.

The committee created by a resolve of your last stated meeting, ask leave to report; that they have had under some consideration, the objects to which the resolution of the society directs their attention, that sensible of the importance and difficulties of the duty which it imposes, the shortness of the time, and paucity of opportunities, which has been allowed them, and of their own incapacity under any circumstances, to exhibit the subjects embraced by your resolution, in all their important guished by the title of animals, and which is markrelationships, with the comforts and enjoyments of ed by a complexity of structure and function, acsociety, they do not hesitate in the avowal, that the task assigned to them, has been executed in a manuer very incommensurate with its own dignity, or the anticipations of the society. Your coin-globe, has been artfully separated; and may justiy mittee pretends not to present a finished picture: they have drawn but a faint, and perhaps very imperfect outline; and leave, as the office of better talents, exerted under circumstances more favour- The first of these, to wil, vegetables, are, with few its inaccuracies. The objects which claim the with the earth, for their existence; and animals, not only to enable him to analyze the different soils, attention and patronage of this society, are numer with man at the head of the class, are separated ous and much diversified in their character and from it, only by the effect of vegetable agency .valuable purposes, for which this institution was of all animated phenomena, deserves the serious originated. Your committee have, therefore, at-attention of him, whose business is confined to the

or of principal consequence to any exertion, made different employments. or the advancement of the agriculture of our state.

The committee cannot omit to recommend, that the society direct its attention, to the best method of clearing land of its redundant timber, rock and other materials, which impede or obstruct agricultural labour -- to the draining of ponds and ready reflecting back as much light, as they have marshes, to fencing and enclosing of ground in borrowed from their elder sisters on the Atlantic. the most perfect and durable mann r; to the rotation of crops, and to the disposition of mineral. vegetable, and animal matters, which are found opon the surface of all countries, in such a way, as will be most promotive of the interest of him who cultivates the soil. These are processes, which, with the practical farmer, demand a careful Take, for example, the following proceedings, as an and primary attention; nor should they, in the evidence of the progress of the plough, and of the opinion of your committee, be transposed from this natural order, in the contemplation of those, who et about the investigation of agriculture, in its most scientific aspect. They are subjects of early attention in common practice, and well merit the consideration of this institution. Your committee takes the liberty of suggesting the importance of an investigation into the specific nature of the different earths, which compose the soils in different districts of our country. These, how ever, are rarely presented by nature, in a pure and uncombined or unmixed condition. They are much the most frequently presented to the agriculturalist, in a form of clemical combination with other matters, and in this compound aspect, are variously mixed with one another, and with vegetable and animal materials, in different states of perfection and decomposition. In an investigation of this kind, intended as subservient to agricultural purposes, it would seem therefore, that our attention should be chiefly directed to them, in their states of chemical union, or simple combination or mixtures, states, in which they are most frequently presented by nature, and in which they constituted nourishment is derived immediately to all vegetable beings, and through their media, constitutes the food of that portion of the animated world, distincordant with its distance from mineral substances. These latter form the first and simplest of the divisions, into which the materials composing our relative importance, to the accomplishment of the The earth, being thus important in the production No man can be a good farmer, and make the most

alreable in their nature, and such as are necessary, (most usual in our state, who unites in himself these

To establish the identity, and to arrange and classify these simple substances, is the peculiar province of that branch of science, which is termed "Mineralogy." Mineralogy, has hence a necesary connexion with agricultural learning, and merits a correspondent attention from this society. But "most of the substances, which compose the superfices of our globe, are constantly undergoing alterations in their sensible qualities; and one variety of matter becomes, as it were, transmuted into another." And these changes in the condition of the materials, which are subject to it, modify or entirely destroy the characters of the originals, in relation to vegetable and animal beings. Such alterations, whether slowly or rapidly performed, whether natural or artificial, whether occurring in the atomic particles of matter, or taking place in the phenomena of volcanic mountains, are all of them chemical changes. Thus the gradual and scarcely perceptible decay of the leaves and branches of trees, the rapid combustion of wood in our fields and fire places, the detonation of powder, and the slow decomposition of vegetable, animal, and mineral manures, are all chemical phenomena. Indeed, few, if any changes take place, in the sensible qualities of the matter of our globe; independent of the agency of vital beings, which are not chemical operation.

The object of chemical philosophy, as applicahle to the purposes of agriculture, is, therefore, to ascertain the causes of these operations, and to discover the laws by which these causes are governed, in the production of their consequent phenomena. In this point of view, chemical philosophy, or what may be more specifically applicable to present necessity, "agricultural chemistry,"

merits your respectful attention.\*

\* It is really surprising, how little importance seems to be attached to the study of chemistry, when we rethe pabulum or food of all animated nature. This flect what a powerful agent it is, in opening to our view the hidden areans of nature, and how greatly the study of it enlarges the boundaries of our knowledge. -There is not a young man in this city, who can spare twenty dollars for a ticket, and who can command an hour, (from live to six, P. M.) that ought not to avail himself of it, to attend Doctor Denutt's lectures on Chemistry, in the Medical College. Whatever may be his destiny -- whether he intend to drive some niechanic art, to pursue a learned profession, or to plough the seas or the land; he would not fail all his life to derive pleasure and credit, if not pecuniary benefit, be considered as giving a primary impulse in the from the knowledge he would thus acquire. We would production of the endlessly diversified beings, more especially recommend to those, whose sons are which compose the vegetable and annual kingdoms. destined to till the soil, to give them the benefit of this course of lectures. It is not meant that every one able to success, to supply its defects, and correct exceptions, dependent upon a perpetual contact with its principles to a certain extent, is indispensible; and to apply his manures with greater effect, but to make him, in society, a more accomplished gentleman of his land and his means, without some acquaintance with chemistry. And even suppose he could, is there no pleasure in knowing the reason of things? Is there tempted a designation of those only, which are most culture of plants, or rearing of animals; or, as is no difference between the plodding clodhopper, who

the farmer; and produces in the results of his flowers, lettuce, cellery, endric, asparagus, spilabour, almost incredible modifications. Your committee are of opinion, therefore, that it is valuable for the society to inculcate the importance of a competent knowledge of agricultural chemis- winter season, are entitled to the respectful attenin its more extended application, to the developement of the laws of the material world. committee recommends to the society, that they mention the different kinds of grasses, which supshould ascertain and bring into common use the ply the rough food of our domestic animals: as most approved and modern agricultural machinery. I timothy, blue-grass, clover, &c. &c. They are These deserve great attention, whether they be such as are necessary in the cultivation of the soil, or requisite in some after process, fitting the product for the demands of the market, or domestic consumption. Machinery of this character, are tural processes, or as otherwise ministering to the chiefly ploughs, hoes, harrows, rakes, scythes, sickles, threshing machines, fans, riddles, cornshellers, flails, cob-crushers, mills, &c. &c. The sources of national wealth and comfort, and as effects already produced through the instrumentality of these implements, in lightening the burden of agricultural labour, and in the promotion of the powers and comforts of our species, are with great difficulty, if at all, subject to any precise calculation. Objects, therefore, which in their present state of improvement, have produced results so beneficial to mankind certainly deserve the greatest possible regard. They are recommended by your committee, as justly entitled to the consideration of this society. The committee suggest the im- for such articles as this climate will not produce, portance of giving your attention, to the most improved methods of cultivating the different vegetables, which the latitude of our state enables it to produce. These are—first, such as are necessary for domestic consumption; and, secondly, those which after supplying the demand at home, are intended for exportation to foreign countries. Of the latter description, we deem Indian corn, wheat, rye, oats, barley, buckwheat, rice, hemp, flax, and tobacco, as meriting chief attention among others, which, though most usually consumed at home, are occasionally shipped abroad, to supply their defect in other places. Among the various vegetables, chiefly or entirely communed by domestic uses, we may mention Irish and sweet potatoes, turnips, onions, ground artichokes, pumkins, melons, cucumbers, and the vegetables more entirely culinary; as garlic, leeks, carrots, parsnips, beets, goes the daily round of drudgery, like the horse in the mill, and the farmer of science, who, on the rainy day, and the long dreary winter's night, can turn with pleasure to his books, and there learn the why and the wherefore of a thousand appearances and results, which to the mere man of practice, steeped in ignorance and superstition, are but so many inscrutable phenomena, affording no amusement, exciting no conjecture, stimulating to no inquiry? How different, again, must be the character and destiny of the chatdren, reared and educated by two such different parents? The farmer educated by two such different parents? of science watches the opening faculties of his child, "teaches the young idea how to shoot," and by perpetually gratifying, perpetually renews his thirst after knowledge; he makes him the ornament of society, and the delight of his declining years. But the mere clodhopper, the contemner of "book-larnin" tells his ill-fated progeny, to deny themselves all the comforts and amusements, that serve to embellish the dreary pilgrimage of human life, to put their trust in their mules and their oxen, and for the rest; to watch the changes of the moon, and the shifting of the winds, and the rise and fall of the market; as more important than all the philosophy that ever was promulgated, from the days of Solomon and Confucious to the present time.

Editor A. Farmer.

nage, peas, beaus, squashes, tomatas, &c. as constituting a considerable portion of the food of man, and of many domestic animals during the try especially, and some attention to the science, tion of this society. Of the vegetables, the cultivation and improvement of which, should engage The the care of this society, we should not omit to produced with little comparative labour, and hence furnish the cheapest food of those animals, which are consumed as the food of man, or of such as are chiefly employed for their power in agriculnecessities or coollorts of our species. They are objects of considerable importance among the resuch, are recommended to your consideration by the committee. To supply them in the greatest ahundance and perfection, consistent with the nature of our climate, and character of our soil, is a desideratum, which cannot, for the prosperity of our state, be too early achieved. They should constitute under such circumstances, the chief subsistence of domestic animals, and spare much of the present product of agricultural labour, to be exported to distant markets, and given in exchange and which the need or comfort of our citizens, may require from abroad.

The cultivation and improvement of fruit trees and vines, claim a share of the attention of this society. This duty seems to be embraced in the them, accompanied by an account of the process processes of sowing, engrafting, transplanting, by which they have been produced, if vegetable pruning, inoculation, and budding; together, with and the mode of feeding and preserving from the an investigation of the causes, which impair their vigor, or produce their entire dissolution-the best methods of preventing or removing the effects of such noxious causes; and the adaptation of individuals to particular soils and situations, which may supply the necessary nourishment of each specific variety.

The committee recommends great attention to improvements in the breeds of our horses, cows, mules, sheep, hogs, goats, and farm yard poultry—to the best methods of supplying them with food, and defending them against the weather, winter season, and other noxious agents; and the adaption of grazing grounds or ranges, appropriate to their various peculiarities of character. The construction and preservation of barns, stables, cow-houses, sheep-folds, hog-styes, poultry-houses, and buildings employed for the preservation of their opinions, are most perfect. It will also b fruits and culmary vegetables, all merit your consideration, and are essentially connected with the society, a few individuals, conversant with mercan beneficial results of every other agricultural pro-tile transactions. These should constitute a som cess. The committee doubt not, but that due attention will be given to these objects.

The committee recommends an attention to improvements in the fabrication of domestic cloths, and preparation of articles of food; as of shirtings, Virginia cloth, linsey, woollen cloths, blankets, carpets, bagging, cheese, butter, &c. and all other articles of necessary domestic consumption; especially to the hest processes, which are employed in the production of malt, acetous, vinous, and alcoholic liquors. These latter preparations, are not only necessary for domestic use, but already

It is importantly connected with the business of radishes, artichokes, coleworts, cabbages, cauli- form a considerable article in the exports of our state. They should receive the most diligent attention of this institution; and the policy, and best method of their production and preservation, enforced upon public observation. The introduction and cultivation of exotic plants employed as food, or sought after for their remedial qualities, are objects of value to our state, and as such, are recommended to the attention of this society. It is confidently expected that the tea-plant, would flourish in most of the middle states in America; and there is equal reasons to believe that many other vegetables, by proper culture and care, might be made to grow in our state, which at this time, are only obtained by importation from abroad.

The cultivation of exotic vegetables therefore, promises considerable advantage to our country, by extending the means of our national independence. and by giving a check to that constant drain of treasure, which their importation from Asia and other portions of the world, has greatly contributed to produce. Your committee suggests the propriety of the co-operation of this society, in the task of improving the state of our public ways and market roads-in the improvement of the navigation of the water courses, which flow through our states, and in the construction of such crafts, as are best calculated for the transportation of the raw products, or manufactures of our country, to the markets where they are most needed; and where consequently, they will command the best prices.

The committee recommends the establishment of spring and fall fairs, and the distribution of useful and honorable premiums to the best specimens of domestic production, which may be exhibited at

weather, if animal specimens.

To effect these different objects, thought worthy of the attention of this society, it is considered that it will be proper, to appoint different commit tees, whose attention may be devoted to specific objects, and who may report to the society the result, of their investigations or doings, at each quar terly meeting. We would especially recommend: committee of fairs. It should be the duty of this committee, to select such objects for exhibition from among the vegetable and animal production of our state, the present improvement of which they deem most important—to fix upon the timand place of holding the fairs, to advertise the sam in the newspapers of the town; and on the day of exhibition, to preside as judges of the object shewn, and to assign the premiums to such, as it proper, to select from among the members of th mittee of markets, and mercantile houses. Their duty will consist in ascertaining the prices current in different parts of our own, and in foreign coun tries-the sufficiency and solveney of merca til establishments; and the best periods for the sair ment of our own productions.

They should likewise report to the society, a the quarterly meetings the results of their in

quiries.

A committee of Agricultural books and invertions, is recommeded to this society, as an in portant provision. It should be the duty of the committee to lay before the society, from time to time, the earliest information of agricultural discoveries-to furnish descriptions or models of improved utensils, and to report such publications, as in their opinion, the interest of the society re-

quires them to procure.

These, together with other committees, which may be indicated by the different objects of the institution, your committee deems it proper, from time to time, to appoint; and which, it might be somewhat premature, to designate at this time. They will be called for by the rising necessities of the institution, and at such times, their character and duties will be ascertainable with more certain ty, and adapted with greater specialty to the particular subjects, which may require their attention. These are the objects, which have been suggested to your committee, as meriting the chief attention I this institution—there are doubtless many, which they have omitted to notice altogether; and even those, which they have attempted to present for your consideration, are greatly defective, in respect to the details of their character. To have supplied this imperfection, however, would have demanded much more time and perhaps talent, than has been allowed to your committee. They ask therefore, that you will accept of this report imperfect as it is, and that you will discharge them from further attention, to the duties imposed by the resolve of your last meeting.

J. PRIESTLY, J. MULHERIN, COMMITTEE. J. OVERTON, July, 1819.

# Internal Improvement.

FROM THE RICHMOND ENQUIRER. TO THE EDITOR.

Lexington, Virg. Sept. 6, 1819.

SIR,-I enclose you an extract from a letter written by one of the surveyors for the Virginia Civil Engineers, addressed to myself living in Rockhridge. If you think it will be acceptable to the public, you will please to give it a place in your paper.

EXTRACT.

Loop Ferry, on New River, August 24, 1819. I arrived here this morning. I have not heard from you since I left Lewisburg, five weeks ago; I wrote to you since then, my adventures on the last route surveyed from Jackson's river to Kanawha great falls. The company are all well; and I never experienced more ample health and hap piness than this season, in the wilds of Suel and Ganley. You may ask, my triend, what is likely to be the result of the official proceedings of the Virginia Engineers in this part of the state? Whether the contemplated commercial communication can be effected? Whether a turnpike road can be made from James to Kanawha rivers? And by which route? Whether New river can be navigated? &c. &c. You will excuse my saying nothing about those matters, lest it should interfere with the business of the Virginia Engineers. recollect, about twenty months ago, I had an op-

its first entrance into Virginia, where it is about the size of James river at the Blue Ridge. It its confluence with Ohio. It is generally a swift deep river, and would, in my opinion, he much easier navigated than either James or Potomac rivers, down to about 25 miles below the mouth of Greenbriar river, where it commences its descent through that great chain of mountains. which traverses this whole section of country, from the Big Bend of Tenoessee river to the head of Alleghany. In this part of Virginia, it is known by the name of Suel and Ganley mountains: properly speaking, it is not mountains, but rather a high ground of three or four miles ascent on the east side, and two or three descent on the west side, and about 40 miles across. The river runs formation of an opinion either way. (Recollect I through the high ground, about at right angles, hy way of a long gap or great gull as it were, of about from 1 to 200 yards wide at the bottom, from half a mile to a mile wide across the top, and from 8 to 1000 perpendicular feet deep. The sides principally consist of horizontal ledges of rocks, one upon another, frequently forming clifts from 1 to 300 feet high in a place. Along the bottom of this great gulf, and hemmed in by cliffs upon all sides, the whole body of Kanawha is rushed with considerable fall for about 40 miles. frequently through a space of less than 100 yards, and in one place only 38 feet wide. The creeks which rise upon this high ground, run with a moderate descent, till within about one mile of the river, when they commence descending the gulf, by falls in succession of from 50 to 150 feet at a time. The chief of this high ground water is chalybeate, subject to flow high in winter, and go dry in summer; ten or twenty wet weather springs are sometimes found on an acre of ground.

You ask me whether we are not frequently on high pinnacles, whence we have extensive views? I think I was last Thursday on a certain point on I Ganley mountain, about 1200 feet above the river; having a view of the river two miles below and three above; and a prospect of three falls, similar to the big Curshaw falls in James river. The sight of such a vast body of water so far beneath, the sounds of the different cascades, intersecting each other, and echoing against the opposite cliffs, together with the beauty and serenity of the day, and harmony of the songsters of the grove, constituted one of the most interesting scenes, that I ever beheld. You raise the eye to a level with the horizon-far, the distant moun-nessee, which would have traversed the vast tains roll, beyond where its sight can reach—one rounds of the Mississippi. But the South Carobeyond another, as if at length they appear con-linians talk of taking the produce of this section verted into clouds; not a human voice is to be of the country, to their market, by means of the heard, nor a mark of the hand of human industry Yankin and French broad rivers. So that our to he seen. All is grandeur-well calculated to territory would be limited to the country on James elevate the human mind to a contemplation of the and Kanawha rivers, unless sources of assistance

sublimity of nature's author.

For a few weeks past, my business has principally lay in a straight direction across the country, Lewis marched his army to Point Pleasant.

Virginia, pointed out as having been the seats of \$168,000, we could make our 28 miles, from

portunity of seeing New river, from its mouth to human caroarc, during the Indian wars, I paus. for a moment, and think of your father and minee A little while ago, this whole section of country then runs about 332 miles on Virginia hottom, to lay defenceless, exposed to all the horrours of savage warfare; now what a consoling reflection must it be to a Virginian, that the foe is removed beyond all apprehensions of danger; and those distinguished sons of Virginia, who fought for us, are now eating and drinking in peace and plenty, tuning their harps under the tree of liberty, and that the theatre of war is probably about to become the seat of the greatest internal improvement in this part of the United States.

The question is probably in your mind, whether Virginia should proceed to make these improvements or not? For my part, I do not possess information upon the subject, sufficient to justify the do not advance any thing as originating from either of the Virginia Civil Engineers, or any person else; it is merely my own conjecture.) Unless we can find wealth and territory within the limits of Virginia, to trade this way, sufficient to justify the expense of making the improvement, it might probably turn out like the Indian's gun. Considerable trade is anticipated from Ohio, Indiana, &c. This may be doubted-1st, because New-York will, in a little while, have a water communication by way of the lakes, clear across the heads of those states, and we are told, that it would be quite an easy matter to form a water communication between the lake-water and Muskingum of the Ohio. If so, and if Mr. Fulton's remarks on the New-York canal, be correct, New-York might probably be able to convey a given quantity of produce from a port in Europe, into Ohio river, for less money than we could. 2d. And because the Mississippi is becoming almost equal to the Atlantic, and the mouth of Ohio or Missouri may in process of time become a market almost equal to any. Atlantic port. Trade is expected from the head of New river. But North Carolina proposes a communication from the head of New river, to that of Roanoke. However, I doubt whether a farmer living on the head of New river. could not put a ton of produce on board of a ship on the Atlantic Ocean, saler and cheaper by way of the Greenbriar route, than that of Roanoke. So great are the difficulties to be encountered in that river, and the Albemarle Sound. Some have thought that by way of Clinch, and Bluestone rivers, we might draw produce from the south western parts of this state, and the border of Tenunseen by me, might originate elsewhere. How much would this improvement cost? I

suppose if New-York could make 250 miles of her from near Lewisburg to Kanawha great falls, fre canal 40 feet wide and 4 feet deep, for \$1,250,000, quently crossing the old Ganley trace, by which we could make our 250 miles of James river canal, 30 feet wide and 3 feet deep, for the same My friend, what great revolutions have occur-|money, (we having twice as much lockage to Their official reports will soon be published, when red in North America since the year 1774! Fre- make as they.) And if the United States could we anticipate a full elucidation of the whole. You quently, on viewing places in the western parts of make 28 miles of the National turnpike for mountain for the same, which makes \$1,418,60

Then suppose Greenbrier river 46 miles, and New river 174 (up to N. Carolina) to be improved on the best modern plan of sluice navigation,

176,000

Total, \$1,594,000

250 miles long, in a straight line and average 60 Then say 12 tollages at 1,00 miles wide, which would make 13,800 square miles; on Kanawha from North Carolina to Suil mountain 25 miles below the mouth of Greenbrier. So that inasmuch as the land carriage (\$111) can 180 long and average 80 wide, 14,400 square the divided by the water carriage (86)-18 times miles, (balancing the trade on the lower parts of and the half of 6 remain on the same principle, Kanawha, against the expense of either opening water conveyance is as far preferable to that of clean, without paring or scraping. Put them in a the river through Suil and Gauley mountains 4. land as \$1.51 are more than \$1.51 for take book. the river through Suil and Gauley mountains 4 hand as \$1-1 are more than \$1. If we take backmiles; or constructing a turnpike road from Green-loading into consideration, it will not alter the brier river to Kanawha great falls 61 or 62 mile- case; for the boat can return with as much at one our territory would be 28,200 square mile. This load as the wagon can at six. - Notwithstanding the is a territory vastly more extensive, than that great resistance that a loaded hoat, upon edge which supports either the Bridgewater, or famous water meets with from friction, and being or-Languedoc canals. Nay, it is half as large as tinually ascending-whereas in case of a wagon up all Ireland, and would probably admit of as great on a road it is quite the contrary. For a loada proportion of arable land, as either Ireland or wagon upon a road a cets with less resistance, go-Scotland. We might carry the thing still further, ing at a given velocity, than it would going at half and say, that a square mile contains 640 acres .- that rate: in a proportion not fully ascertained This suppose to be a farm, it would be a bard Something like I to 4. Now a loaded boat upon case, if Virginia could not afford one half of her water, going at a given rate, meets with four times surface to be cultivated, and if so, here would the resistance, or would require four times the be 14,100 farms. A man able to own one of those force to propel it—that it would going with half farms could, in all probability, export 50 barrels the velocity. And not taking into consideration of flour, or produce to that amount per annum, the merchant's being detained eight days longer to exclusive of some other articles of produce; which his produce, and paying eight days longer storage. would be 705,000 barrels .- Lay toll per barrel 25 My friend this would be a great work for Virat this rate the improvement would pay for itself in Virginians of dissimilar minds to come to a conclustead of a turnpike road to Kanawha great falls, of the national turnpike. is the great superiority and facilities of water consomething like the proportion between 181 and 1 .- from the Virginia legislature, this session, worthy Suppose for instance, that we make a turnpike of her name in the Union and in the world. road 20 miles long, 40 feet wide, and pave it with | It appears upon the other hand, that we should stone, I suppose, that with an equal quantity of proceed to make this improvement gradually, as we leat shorter. money, we could make a canal 20 miles long, 30 increase in wealth and population-on the other could go with 24 tons burthen, and on this road a lest the Carolinians effect the improvements spoken wagon could go with 4 tons burthen. Now I of, or N. York finish her canalcould hire a boat for as little money, as I could steer the boat, dispose of the produce, &c.

Per day for -		-	-	S	1.00
And board him for		-	-		1,00
A boy of 12 years	old to	lrive the	e horse	for	50
And coard him for	-	-	-		1,00
A horse to propel t	he boat	for	_	-	50
And feed him for	-	-	-	-	1,00
And say pay toll	-	-	-		1.00
~ <b>1</b>					

which would cost me S6.

Now for the road per dav We would hire a driver for Board him for Hire six horses at 50 cents per head Feed them for 1,00

Total 11,00

This team could convey 4 tons this 20 miles in

Total III

cents, would be \$176,250 per annum .- So that ginia to undertake, and probably difficult for 238 10 or 11 years .- But the population and wealth of sion upon. It is one of the most important questhis part of Virginia falls greatly short of this; tions ever deliberated upon in our legislative hall. quired. My reason for mentioning the communi- tainly able to do it, and it is probable, that the U.

But as to the propriety, time, and manner of ef- the oven.

feet wide and 3 feet deep. On this canal, a boat hand, it seems we should do it with all rapidity.

I am but a youth of neither information nor exget a wagon and harness .- I could hire a man to persence in those matters -you possess both ex- while before a fire, to rise; then bake in a very hot oven tensively. You ask me for my optoion, I am not (Parmentier in the preceeding paragraph is directly consule at this time to give it, I solicit information that from wheat from you, I expect to be in Lewisburg about the 30th of August.

> Very respectfully yours, &c. HEGH P. TAYLOR.

FROM BURDLET'S QUEBANDRY.

DIET IN RURAL ECONOMY.

Count Rumford has made many experiments on diet;

Jackson's to Greenbrier river, across the same and 24 tons this 20 miles of canal in one day, book of "Hints designed to promote Beneficence, Temperance, and Medical Science," published in 1797.

Dector Lettson observes, in general, that pies are more advantageous than reasting or boiling. This he 1,00 illustrates. Or motton, 64 ounces in a pye, made with 1,00 24 ounces of wheat fight, and eaten with 84 ounces of 3,00 bread, in all 9 4 ounces, dined 8 persons fully; whilst 60 ounces of mutton roasted, and eaten with 33 ounces of fixed in all 9 2 ounces. of bread, in all 93 ounces, dined only five 6f the same

1. Wilk potrage, (thickened milk) he says, is more salutary than tea and bread and butter; and made one day-which would cost me Sit: he would thus, is preferable to milk alone: equal quantities of Now how much territory would we be certain of ! require six days going and half a day each trip to re-milk and water are boiled up with a little oatmeal, On James river, we would have a territory about turn, which would be 9 days at \$11 per day \$99 which breaks the viscidity of the milk, and probably is easier digested than milk alone. Oatmeal is a warm-er nourishment than wheat flour, and agrees with weak

> stomachs. 2 Of boiling potatoes, he says, in Ireland and Lan-ca-hire potatoes are boiled to great perfection, and then are used instead of bread. The potatoes being good, are to be nearly all of the same size. The large because they will add to the water from their own junces It large, as soon as the boiling begins, throw in some cold water, and occasionally repeat it, till they are boiled through to the centre; they will othererack and burst on the outside, whilst the inside the lone enough. Whilst boiling, add a little salt.

> were they are cooked the better. Pour off the and pilce them again over the tire, for evapo-1 in moisture, that they may become dry and Serve up with the skins on. Steaming them is very inferior to boiling or stewing in water, as above.

#### 4. Patatoe Pudding .- Lettsom.

12 ounces of potatoes, boiled, skinned, and mashed-1 do. suet.

1 do. milk, that is, 2 spoonsful.

1 do. cheese.

Mix all together with boiling water to a due consistence. Bake it, instead of cheese, there may be an ounce of red-herring pounded fine in a mortar.

#### 4. Potatoe Bread-Parmentier.

Crush and bruise potatoes well, together with preparso that a proportionably longer time would be re- If we only possessed enterprize, we would be cer-ed leaven, (or yeast) and the whole flour designed; up with warm water added. When the dough is enough cation being made by way of Greenbrier river, in States would as freely assist in this case, as that prepared, place it in the oven less heated than usual, nor shut it up so soon as is common, but leave it longer in Without these precautions, the crust will veyance, compared with that of land.—In my mind, fecting this great work—I anticipate something be hard and short, while the inside will have too much veyance, compared with that of land.—In my mind, fecting this great work—I anticipate something be hard and short, while the inside will have too much veyance, compared with that of land.—In my mind, fecting this great work—I anticipate something be hard and short, while the inside will have too much veyance, compared with that of land.—In my mind, fecting this great work—I anticipate something be hard and short, while the inside will have too much veyance, compared with that of land.—In my mind, fecting this great work—I anticipate something be hard and short, while the inside will have too much veyance, compared with that of land.—In my mind, fecting this great work—I anticipate something be hard and short, while the inside will have too much veyance, compared with that of land.—In my mind, fecting this great work—I anticipate something be hard and short, while the inside will have too much veyance, compared with that of land.—In my mind, fecting the great work—I are the second with the sound of the land.—In my mind, fecting the great work—I are the second with the second with the second of the land.—In my mind, fecting the great work—I are mixed with dough or flour, they are to be made into a glutinous paste, for giving tenaeity to the flour of grain. A small portion of ground rice answers, and makes it

> 5. Potatoe Bread, in England. A skillet of potatoes with cold water is hung at some distance over the fire, that the water may not boil till the potatoes become sofs. Then skin, mash, and mix them with their weight of wheat flour, and also with the yeast, salt, and warm water wanted. Knead all together. Lay the mass a little that from wheat.

> 6. Another English mode says: after long boiling, pecl, select the most mealy, and bruise the potatoes To take off any bitterness of the yeast a little bran, milk, and salt are added; and after standing an hour, these are run

through a bair sieve. 7 Another mode is given by the Board of Agriculture. It directs, to select the most mealy sort, and boil and skin them. Break and strain 12 lbs. potatoes through a very coarse sieve of hair, or a very fine one Total 6,00 and has written a book recommending the best choice of wire, so as to reduce the pulp as near as possible to for labourers. His book is not now in my possession; a flour. Mix this well with 20 lbs. of wheaten flour, but as Doctor Lettsom has since published on the same. Wake and set the dough of this mixture exactly as if This man, boy and horse, would convey the boat subject, helow are a number of messes selected from his the whole were wheat flour. This quantity makes 9

loaves of 5 lbs. each, in dough; or when baked about spearch, parsley, and two ounces onious or leeks.two hours, 42 lbs of excellent bread.

Doctor Fothergill says, if potatoe bread is cut before it is a day old, it will not appear enough baked; because of the potatoe moisture (Parmentier's mode as above, cures this by baking slowly.) He adds, never slice potatoes with a knife, raw or boiled, but break and mash with the hand or a spoon, otherwise they will e soft.

Doctor Lettsom next proceeds to give the best soups; according to Mr. Justice Colquhoun.

1. Potatoe Soup .- Colquhoun.

Stew 5 pounds coarsest parts of beef or mutton, in 10 quarts of water till half done. Add a quantity of potatoes skinned, and some onions, pepper and salt .--Star frequently, and boal enough Bones of beef added would increase the soup in richness or quantity.

Estimate in mills. † 5 lbs. coarse beef at 60 mills 300

Booes, to enrich it Potatoes 24 lbs. or 1-3 bushel 20 Onions, a bunch 60 Pepper and salt 60

It gives 10 quarts of soup, meat and potatoes; and dines 10 men at nearly 5 cents. A red herring is said to be a good substitute for onions, pepper, and salt; but red pepper may be added †

11 Barley Brit's.—Colquboun.

It admits of a mixture of almost every kird of garden vegetable, and is never out of season. Onions or leeks and parsley are always a part of the ingredients; besides which, cabbage or greens, turnips, carrots, and peas may be added. A teacup of barley suffices for a large fam ly. Pearl barley is dearer, yet not so good as the common husked or Scotch dressed barley. Water, 4 quarts, beef 4 pounds, with bones, barley, 4 ounces, [Count Rumford says, burley meal is better than whole barley, for thickening broth, and making it more nour-ishing ] Stew all together two hours. Then add the herbs cut small, and salt. The whole then bails till tender. Skim off the fat or not, as you like it. Onions or tecks must not be omitted.

111. A plain good food, with very little meat, and as wholesome as can be obtained from wheat or burley .- Colquboun

Gut half a pound of beef, mutton, or pork, into small pieces; add half a pint of peas, 3 sliced turnips, and 5 potatoes, cut very small; an onion or two or leeks .-Put to them 7 pints of water, and boil the whole gently, over a slow fire for 24 hours. Thicken with a quarter pound of ground rice, and one-eighth pound of oatmeal, (or 1 lb. of oat-meal or barley-meal, without rice.) Boil & hour after the thickening is put in, stirring it all the time. Then season with salt and pepboiling, it is a meal for 4 persons, and will cost 2 cents each person.

IV. Cut into very small bits, 2 pounds of beef, mutton, or pork, out of the tub, or hung beef, freshened in water; and put them in a pot with 6 quarts water Boil slow near three hours, or rather stew till tender Add 4 lb. carrots or parsnips, and 1 lb. turnips, all sliced small. Sometimes instead of them a few potatoes sliced; also add some greens, cabbage, cellery,

· Some of the receipts say boil, others stew others again, boil over a slow fire. Page 342 says, "never boil soups briskly; but leave them long, long over the fire, will be put simmering rather than boiling." Doctor Johnson says, "It is material that soups be cooked in close stew pass." or vessels that will scarcely admit of any evaporation

† Small dealings are conveniently charged in mills or in cents and mills. Ten mills make a cent, 100 cents. or 10 dimes a dollar

‡ An English gentleman assures me, he often ate of a plain pottage or soup in Switzerland, which was very agreeable to him, and that having it made at his fa ther's, on his return to England, the family liked it so well, that they often had it, though so plain and simple, as to be made only of potatoes skinned, boiled, mushed up, and then stewed with some butter and salt, without any potherbs or spice; and yet these were opuleo:

people, used to good living. It is a good substitute

for pea soup, and made of the same consistence.

it very thick.) Boil all well together, and season with pepper, or ground ginger and salt. It will serve a ramily of six, for a day Or it may be thickened with pritability of the bladder, which causes them to stale any kind of meal, or barley, beans, peas, or rice.

V. Take 4 lbs. beef, onions 3 lb. turnips 2 lbs. rice 14 lbs. parsley, savory, thyme, of each a large handful, pepper and salt; water 17 quarts. Cut the beef into slices, and after boiling it some time, mince it small -The turmps and onions infused, and sweet herbs may be minced before they go to the pot. Boil the whole gently together, about three hours on a slow fire -Scarcely two quarts will be wasted in boiling. 'the rest will serve 18 persons for one meal. Cost 2 cents

Where fuel is scarce, the materials in the three above receipts may be stewed in a pot, all night in an oven, and will next day require but a quarter hour

VI Bake in an earthen pot, a shank of beef in six or five turnips sliced.

# $Extracts\ from\ a\ Compendious\ Diction$ ary of the Veterinary Art

[Continued from No. 26+p 205]

BLADDER, Inflammation of the. This disease does thus unprotected and at the same time extremely irritable, every drop of urine that passes into it is immediately expelled with a violent and painful effort, and the animal is almost constantly endeavouring to stale, voiding only a few drops at a time. This appearance has sometimes led to the conclusion, that there is a stoppage in the neck of the bladder or in the urinary passage, and the bladder is full of urme; it will be found, however, on passing the hand up the fundament, that the bladder is quite empty. There is no difficulty in ascertaining this point; for when it is full, it may be very distinctly felt through the gut, and forms a considerable obstacle to the passage of the mation was confined to one, or much more in one than pression of. in the other, the stiffness was most observable on that side. (See Kidneys.) Bleeding is the first remedy to most important operation in farriery, not however on be employed: and, if the pulse is very quick, the in-account of its difficulty or any particular skill which ner surface of the eye lid red, and the breathing it requires, out because it is by far the most efficacious disturbed, not less than five or six quarts should be taken, provided the animal does not faint before this and cattle are liable. It may be performed either with quantity is lost. Unless the bowels are in an open a lancet or a fleam; in skilful hands, and particularly state, a pint of castor oil should be given, and any hard excrement there may be in the lower gut remov-ed by means of glysters. Should there be any suspi-the fleam perhaps is preferable, as it requires but little cion of the kidneys being at the same time affected, it dexterity, and by keeping iostruments of two or three will be proper to rub the loins well with the following different sizes, we may command either a large or a

Flour of mustard, two ounces.

Water enough to make it of the consistence of

After this, let a fresh sheep's skin be thrown over the to ns, the flesh side next the skin. If the symptoms do not abate, the anodyne glyster is to be thrown up, and the following ball given once in six hours;

Camphor, one dram and a half.

Opium, half a dram.

(the operation must be repeated; though it is probable Thicken with a pint of out-meal, (or a quart, to make that the disease will then have become highly dangerous; still it is the only chance that remains of saving the animal's life. Horses are often affected with much oftener than usual, but not with any pain, or in that very small quantity we have above described; and besides they feed well and are free from fever. I am inclined to believe, that this state of the bladder, is sometimes induced by the permicious practice of giving strong diuretics upon every trival occasion. The best remedy for this is the infusion of linsced; or it this does not remove it, give the following ball:

Camphor, one dram and a half.

Opium, half a dram.

Nitre, six drams, Flour and syrup enough to form a ball.

BLADDER, Inflammation of its Neck. Mr. Blaine has informed us that "sometimes the neck of the bladder takes an inflammation alone, and that it is said to occur more frequently to horses than mares. It is quarts of water, with a pint of peas, a leek, and four to be distinguished from inflammation of the kidneys because in passing the hand up the rectum, the blad-der will be found distended: this will also distinguish it from inflammation of the body of the bladder. The making a little water frequently will not distinguish this from the two foregoing complaints; for in inflammation of the oack of the bladder, there is frequently a small quantity of urine coming away at different not often occur to horses or cattle: and, when it does, tures: for after the bladder becomes distended, there most commonly depends either on inflamoution having are, by the force of the distention, a few drops forced spread to it from the bowels or other internal parts, lost now and then. But in this complaint, the staling or from the too free use of strong diurctics, which will not take place till the bladder is distended fully; causes a defective secretion of mucous substance, by whereas in the former complaints, it will come on at which the internal surface of the bladder is defended the very first." Mr. Blaine recommends bleeding, from the acrimony of the urine. The bladder being axative medicines, and stimulating the parts externalty. "If the inflammation does not subside, so as to permit the urine to pass, it must be drawn off by artificial means, or the bladder may burst, or the irritation will kill, or gangrene will come on. In a mare, from the urethra being large a catheter may be easily passed up, and the water down off: but in the horse, to effect this, an opening must be made from the perinæum; but neither of these should be used till the effort of passing the hand up the rectum and pressing on the bladder has been tried, which will often pro-mote the expulsion." In cases of distended bladder from retention of urine, there would be danger I conceive in pressing on the bladder, as Mr. Blaine dehand. The frequent stalling therefore is caused by ex-scribes; in a mare there would be neither danger nor treme irritability of the bladder, in consequence of its difficulty in drawing off the name by means of a cainflamed state. The above symptoms I have observed theter; and in a horse, after bleeding and other reto take place also in inflammation of the kidneys; but medies had failed, an incision may be made with safehere, in addition to the frequent and painful stalling, ty in the perinæum, and a catheter passed thence into there was a remarkable stiffness of the hind legs, wheo the bladder, without the painful and dangerous expeper, or ground ginger. As only a pint will be lost in both kidneys were inflamed; but when the inflam- dient of pressing on it. See Ucine Retention and Sup-

BLEEDING, BLOOD-LETTING OF VENESECTION. The remedy in many dangerous diseases, to which horses when horses are shy and afraid of the bloodstick, the small orifice.

Some farriers tie a cord round the neck, in order to raise the vein, that they may strike it with more certainty. This, though a clumsy method, and rarely necessary, does not appear to me so highly dangerous, as Mr. Clark has described it. Whenever it is found necessary however, as in mad-staggers, the cord should not be applied, until the vein has been opened. The vessel for receiving the blood should be so marked on the inside that the quantity of blood in it may be readi-Linseed meal and treacle enough to form a ball, by seen. The jugular or neck vein is more easily The horse should be allowed or made to drink freely opened than any other, and on this account is generally of linseed infusion, or a solution of guin. When re-chosen. Many farriers, however, prefer other veins lief is not obtained, the pulse continuing quick, and in particular cases; in injuries of the shoulder, for the membrane of the eye red, and particularly if the example, they open the plate vein, and when the blood first drawn is found to have buff on the surface, kidneys are supposed to be affected, the large vein on

there does not appear to be any just ground for this preference; and it is generally admitted, I believe, by where general bleeding is required, the neck vein is the most convenient, as any quantity of blood may be drawn from it with greater certainty, and much less difficulty, than from any other. The discases in which bleeding is useful will be described elsewhere. (See Inflammation, Fiver, &c.) It is sometimes employed also as preventive: as in horses that are taken from grass into the stable, or from a state of poverty into good keep: in such cases however, it may generally be dispensed with, if the change of situation and diet be brought about gradually, and the horse properly exercised. (See Condition, Feeding and Exercise.) It sometimes happens, however, that this precaution is not attended to: and then, if the horse should appear dull and indifferent about his food, and particularly if the membrane of the cyclid should appear red, he ought to be bled freely; and if in any degree costive, a dose of laxative medicine should be given. The practice of bleeding horses indiscriminately at certain periods is improper; but if they have been accustomed to such periodical evacuations, they often suffer from its omission .- It may not be superfluous to notice one case, which came under my immediate observa-tion, in which bleeding proved fatat. A horse was to it at that season of the year; I did not examine him minutely: and as the groom stated that there was no-thing amiss with him, I directed a moderate quantity of blood to be drawn-about five pints were taken off and while the operator was pinning up the orifice, the horse fell. He appeared to suffer much pain, and had considerable difficulty in breathing. In this state he remained about twelve hours, and then died. On examining the body, a red coloured fluid was found both in the abdomen and thorax, but not in any considerable quantity; the lungs were in many parts of a dark red colour throughout; and in the pericardium, or heart-bag, there was rather more than a quart of red-coloured fluid; from these appearances it is probable, that the loss of a moderate quantity of blood caused a fatal interruption to the functions of the

When a horse has been bruised considerably by a fall, kick, or otherwise, it is proper to bleed rather freely, and keep him on a cooling diet. I am inclined to believe also, that if a horse has been over ridden, as sometimes happens in a severe chase-copious bleedang, if immediately employed, is the most likely means of relieving him. I have been led to this opinion from having examined two horses that died from this cause. One of them, an impetuous irritable horse, died about two hours after he came into the stable : the other survived about thirty hours. In both the lungs and right side of the heart were turgid with blood; in the latter. the kidneys were bighly inflamed, as well as the lungs and right side of the heart; but the bladder was sound and empty. The most conspicuous symptom however in this case, was a painful and almost constant effort to stale, without being able to void more than a few drops. The first had a small quantity of blood drawn, and was drenched with cordials: the latter also was bled, and pretty freely; but not till inflammation had made considerable progress.

[ To be continued ]

FROM THE NATIONAL ADVOCATE.

# INTERESTING TO EMIGRANTS,

Who understand the culture of the grape, and making wine.

The state of North Carolina, East Tennessee, and the upper regions of Alabama, are admirably

the inside of the thigh is considered the best. But | rate price of one dollar per gallon, affirm, that when | country, ought to exceed one million; and that their it acquires age, it is equal to the finest sherry. It continues to improve for more than ten years, and has an excellent body. Wine is made along Cape Fear River, from Fayetteville, to the sea, a distance of near 70 miles, and the farmers use it as freely as cider is used in N. England. A few of them cultivate the vine in their fields and gardens; most of them collect the grapes from vines common for a farmer to make eight or ten barrels of wine annually for his own use, and many sell considerable quantities of it.

The upper parts of N. Carolina, East Tennes see, and that part of Alabama lying on the Tennes see river, are uncommonly healthy; more so, perhaps, than any part of the union. Provisions are very cheap and abundant, and the market for wine can never be glutted, as the amount consumed within the United States, amounts to several millions of gallons annually. The almond, the fig, and the olive, will grow in those regions. We are continually buying all these commodities, which we do not attempt to cultivate, and we are striving to raise more bread stuff, more cotton, and more tobacco, than the world can purchase from us. Why during the year 1816, exceeded that of flour exdo not merchants who have capital left, instead of continuing to waste it on the unprofitable pursuits of commerce, form colonies of Swiss, of Germans, and of Americans, who can soon learn any kind of culture, and send them to North Carolina, to East Tennessee, and to Alabama? The profits of such establishments would be certain and abundant, and the nation would suon acquire temperate habits by the use of wine as a common beverage, instead of ardent spirits, which ruin both health and

The writer of this article earnestly begs that gentlemen from North Carolina, who have any knowledge of the wine district in that state, and the species of grape from which it is made, will communicate it to the public by means of the newspapers, as there are a number of Swiss now in this country, seeking information on this subject, and 2000 more would instantly come to our country, were they convinced that wine could be made in any of these United States.

Gentlemen, who have attended to the culture of wines, will render this country an important service, by giving to the public a fair statement of the quantity of wine obtained from an acre of vines, in different parts of the world, and the amount of labour necessary to the culture, together with the usual profits accruing from the crop.

PLINY.

FOR THE AMERICAN FARMER.

### DOMESTIC INDUSTRY.....No. II.

Baltimore, Sept. 28,

MR SKINNER,—I cannot for my life keep that merino sheep, of which I sent you some account, out adapted to the growth of the vine. This is not of my head. Its fate and the consequences of such mere opinion—the fact has been amply proved. management, to our country at large, intrude on my Many farmers near Fayetteville, in North Caroli-| thoughts continually. From the number of those na, have, for years past, drank excellent wine, of invaluable animals, brought into the United States their own making, from the native grape of the in 1809 and 10, it would be easy to shew, that had country. Gentlemen, who have bought large quan-proper care been taken of them, the number of tities from these farmers when new, at the mode- whole, half and intermediate blood, now in the in the service of his country.

fleeces would have produced more than as many yards of superfine cloth. This, at the moderate price of six dollars per yard, would, of course, have now been saving annually the sum of six millions of dollars to the country; to circulate through the avenues of agriculture, trade and industry; instead of being sent out of it, never to return. It tiue, our great economists can purchase dollars, in growing on the trees without any cultivation. It is foreign countries, for paper; bring them home, and lock them up in the vaults of the great bank; but it happens some how, that those from whom they buy them, can slip them home again, with as much ease, as the showman took the gold ring from the lady, last winter, when she thought she was holding it hard and fast between her hands.

> If we were now to add up the millions of dollars, drained annually from the country to pay for imported cloths, and compare the amount with what might have been saved; we would have little reason to boast of economy, -and as little to wonder at

the scarcity of money.

But this is only one item in the account of our present distresses. I am informed that the amount of spirituous liquors, imported into the United States ported, by nearly ninety thousand dollars. Now, what would be thought of the farmer, who purchased more spirituous liquors for himself and family, than all the grain he had to sell would pay for ? Would it not be supposed, that he and his family were driving rapidly to ruin? And what is a nation but a great family? Will not the causes which tend to ruin the one, produce a like effect on the other? Our own country produces as palatable spirits, when properly manufactured and seasoned with age, as any other; and much less injurious to health than any imported. A respectable gentleman, who has for many years conducted a large iron manufactory, assured me that while his hands drank spirits distilled from molasses, few of them stood it more than three years; but that since they took to spirits from rye, unless they went to great excess, he did not perceive that they were injured by them. But those who will risque their reputation, their health and their lives, and entail misery on their families, for the sake of pouring liquid fire down their throats, cannot be supposed to have much regard to the welfare of their country. But it does not follow, that the delegated parents and guardians of that great family, which the United Sates compose, should be equally indifferent to the interest and reputation of their children and wards.

COGITATIVUS.

#### BIOGRAPHY.

COL. J. E. HOWARD AND GEN. O. H. WILLIAMS.

In Caldwell's biography of Major General Greene, lately published, we find the following honourable mention of two Maryland patriots; one of whom is still left us by Providence, to contemplate the fruits of his valour and perseverance in a glorious cause, and to illustrate the sincerity of his youthful patriotism, by the continued practice of integrity and virtue.

A third officer, of great distinction in the southern army, was Col. Howard, of Baltimore He commanded the second regiment of Maryland regulars; and for gallantry and firmness, decision of character, and sound judgment, was not exceeded by any officer of his rank,

With great intelligence and skill in arms, he was one of those heroic spirits, on whom general Greene have graced alike a court or a camp. reposed his hopes, during the time he was deepest in adversity, and in his high determination to recover the south, or perish in the attempt.

Although he had been in comm ssinn, first, as captain, and afterwards as major, from the month of June, 1776, he does not appear to have been much engaged in action, until he took his station at the head of a regiment, in the southern army.

Accomplished in tacties, and ripe in experience, although only now in his twenty-seventh year, he was in all respects, fitted for the operations of the field.

Accordingly, no sooner did an opportunity for action present itself, than his valour, as a soldier, and his reputation, as a commander, hecame conspicuous, in the midst of the accomplished and the brave.

His brightest laurel was gathered at the Cowpens, where, assuming to himself the responsibility of the act, he charged without orders, and at the point of the bayonet, discomfited and scattered a party of the enemv, superiour in number to his own command, and consisting of the flower of the British army

His interview, immediately after the action, with general Morgan, the commanding officer, was eminently interesting; and, were other evidence wanting, shows on how precarious a footing stands the re-

putation and the life of a warrior.
"My dear Howard," said Morgan, cordially pressing his hand as he spoke, "you have given me victory, and I love and honour you; but had you failed in your charge, which you risked without orders, I would have whot you."

Previously to this, colouel Howard had distinguished himself among those, who by their gallantry and good conduct, had sustained the character of the American arms, and prevented the atter destruction of the forces, in the hattle near Cambden, where Gates was defeated.

Nor was he entitled to less applause, for the spirit and judgment, which he afterwards displayed at Guilford, Hobkirk's hill, and the Eutaw springs; at the latter of which he was severely wounded.

But a letter from general Greene, dated November 14th, 1781, to a friend in Maryland, is conclusive, as to the military reputation of colonel Howard.

"This will be handed to you," says the general, "by colonel Howard, as good an officer as the world affords He has great ability, and the best disposition to promote the service. My own obligations to him are great—the public's still more so. He deserves a sta tue of gold, no less than the Roman and Grecian heroes. He has been wounded, but has happily recov ered, and now goes home, to pay a little attention to his private affairs, and to take charge of the fifth Maryland regiment, recruiting in your state.
"With great respect and creem,

"I am, dear sir, yours, "N. GREENE."

Colonel Howard was born June 4th, 1752, on his ancestral estate, near the city of Baltimore. His paternal ancestors were from England, his maternal. from Ireland. The descendant of a gentleman, easy in circumstances, his education was such, as his rank and fortune entitled him to receive.

On the conclusion of the war, he married miss Chew, daughter of the honourable Benjamin Chew,

of Philadelphia.

Contented and happy in domestic life, and much occupied with his private affairs he has never sought political bonours, but left to others to govern the country, which he by his valour, had contributed to set free.

He still resides on his patrimonial estate, surrounded by a large and respectable family, pre-eminent in affluence, and passing the evening of his life in that dignified and felicitous retirement, which a high and unsullied reputation, a peaceful conscience, a cultivated intellect, and polished manners alone can bestow

A fourth officer, uniting in himself all that gives dignity and worth to the private citizen, and excelleace to the commander, was colonel Otho H. Wil-LIAMS, also a native of the state of Maryland.

This gentleman was formed for eminence in any station. His talents were of high order, and his attainments various and extensive. Possessing a person of uncommon symmetry, and peculiarly distin-

guished by the elegance of his manners, he would |

Rich in that species of military science, which is acquired by experience, and a correct, systematic, and severe disciplinarian, general Greene confided to hun the important trust of adjutant general to the southern army. The services, which in this and other capacities, he rendered to that division of the American forces, in the course of their toilsome and perilous operations, were beyond all praise.

He was born in the county of Prince George, in 1748, and received, during his youth, but a slender education. This he so much improved by subsequent study, that few men had a finer taste, or a more culti-

vated intellect.

He commenced his military career, as lieutenant of a rifle company, in 1775; and in the course of the following year, was promoted to the rank of major, in a rifle regiment,

In this corps, he very honourably distinguished himself, in the defence of Fort Washington, on York-Island, when assaulted by sir William Howe; and on the surrender of that post, became a prisoner.

Having suffered much by close confinement, during his captivity, he was exchanged for major Ackland, after the capture of Burgoyne, and immediately rejoined the standard of his country.

Being now premoted to the rank of colonel of a regiment of infantry he was detached, under the Baron

De Kalb, to the army of the south.

General Gates having been appointed to the command of this division of the American forces, he was present with that officer, at his defeat hefore Cambden; and during the action, manifested great valour and skill, in directing and leading the operations against the enemy, while resistance was practicable; and an equal degree of self-possession and address, in conducting the troops from the field, when compelled to retreat.

But as an officer, his valour and skill in battle, were among the lowest of his qualifications. His penetra-tion and sagacity, united to a profound judgment, and a capacious mind, reodered him, in the cabinet, par-

ticularly valuable.

Hence, he was one of general Greene's favourite counsellors, during the whole of his southern campaigns. Nor did any thing ever occur, either through neglect or mistake, to impair the confidence thus re posed in him. In no inconsiderable degree, he was to Greene, what that officer had been to general Washington, his strongest hope, in all emergencies, where great policy and address were required.

This was clearly manifested, by the post assigned to him by general Greene, during his celebrated re-

treat through North Carolina.

In that great and memorable movement, on which the fate of the south was staked, to Williams was confided the command of the rear guard, which was literally the shield and rampart of the army Had he relaxed, but for a moment, in his vigilance and exertion, or been guilty of a single imprudent act, ruin must have ensued.

Nor was his command much less momentous, when re-crossing the Dan, Greene again advanced on the enemy. Still in the post of danger and honour, he now, in the van of the army, commanded the same corps, with which he had previously moved in the rear. But of these operations, it will be our business to speak more particularly hereafter.

A military friend, who know him well, has given us

the following summary of his character

"He possessed that range of mind, although selfeducated, which entitled him to the highest military station, and was actuated by true courage, which can refuse, as well as give battle. Soaring far above the reach of vulgar praise, he singly aimed at promoting the common weal, satisfied with the consciousness of doing right, and desiring only that share of applause, which was justly his own.

"There was a loftiness and liberality in his character, which forbade resort to intrigue and hypocrisy, in the accomplishment of his views, and rejected the contemptible practice of disparaging others to exalt himself.

"In the field of battle, he was self-possessed, intel-

spicuous. During the campaigns of general Greene he was uniformly one of his few advisers, and held his unchanged confidence. Nor was he less esteemed by his brother officers, or less respected by his sol diery."

# THE FARMER.

BALTIMORE, FRIDAY, OCIOBER 1, 1819.

REVOLUTIONARY SPEECHES, DOCUMENTS, &c.

It would be superfluous in us to say any thing in explanation or in recommendation of Mr. Niles's patriotic undertaking, to embody on record the "PRINCI-PLES AND ACTS OF THE REVOLUTION," as far as materials for that purpose can yet be recovered, from the accumulating ruins of all-devouring time.

The object of such an undertaking, and the policy of giving it encouragement, must strike at once on the heart, and command the approbation of all, with whom those principles and acts are held in veneration.

Mr. Niles solicits further contributions of interesting documents connected with that epoch, and says,

"In the present gloomy state of the times, there is b t little cucouragement to do any new thing requiring an expenditure of money; but it appeared to the editor that if he did not commence the work now. he should be compelled to abandon it altogether. The aumber printing is only 1500, of which more than 500 are engaged-and its number will be reduced unless the copies are spoken for very speedily. Pecuriary profit is a secondary consideration in this matter; but the editor is resolved not to invest money in printed paper to remain on his hands, if he can avoid it.

"It is expected that the volume will be about the usual size of those of the WEERLY REGISTER; not as attached to that work, but to match it for such of the subscribers thereto as please to possess it; that is, it will make a volume of between 4 and 500 pages of superroyal octavo, and be printed on a brevier type, for three dollars each copy-a price which, considering the quantity of matter to be given, will not be thought unreasonable. If what shall be deemed revolutionary affairs, in sufficient quantity and suitable quality, to fill the volume cannot be had, the number of pages shall be made up of more modern things, but of the old fashion. The work will be delivered folded and collated, ready to be put to the hands of the binder.

"Subscriptions are solicited-they will be received by the editor, or his agents, in all parts of the United States. Publishers of periodical works, friendly to the undertaking, will oblige us by noticing this prospectus."

CURRENT PRICES OF COUNTRY PRODUCE, ascertained for the American Furmer, by actual sales within the lust week.

MARYLAND TOBACCO-Different sales of crop tobacco have been made at \$10, t0 50, 11, and 12 50—second at \$8 and 9.—Virginia Tobacco—8 hhds. sold by McDoauld & Son, for S8 .-- WHEAT may be quoted at from S1 06 to 1 10, sales having been made at those two prices.—Coan, 621 cents.—RyE, 52 cents.—Oats, as last reported .- Whiskey, from the wagons, 4 tcts .-FLOUR, S6 .- Oak wood, per cord, S4 to 450-Hickory, \$6 50—Potatoes, sweet, 37½ cts. per peck; Irish do. 37½ do.—Butter, 25 to 37½ cts. and not much fit to cat.

The Editor repeats, that from persons not residing in Maryland, North Carolina notes will be reccived at par for this paper

Subscriptions will not be received for this paper for less than 12 months.

The editor of the American Farmer solicits information as to the date of the establishment of all the Agricultural Societies in the Union, their articles of constitution, proceedings, &c. &c. for publication in this paper.

\* The Printer wants three or four lines to fill the paper-I give him, therefore the following Soliloquy, to be read and said by each delinquent Subscriber :- I do owe unto the editor of the American Farmer, S2 for the second half year's advance, which \$2 1 will positively enclose to him by next mail, at his risk, or ligent, and ardent; in camp, circumspect, attentive, pay to my neighbour, the Postmaster, on his accountand systematic; in council, sincere, deep; and per-|or, not liking his paper, I will order him to step it.

# PLICES CURRENT

## AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Currying 160 cocco and cocco		
	RETAIL	PRICES
BEEF, Northern mess) - bbi.	15	
No t wholesale.	$12\frac{1}{2}$ $10\frac{1}{4}$	
No 2 )	16	
Bacon, ID. Butter, Ferkin, wholesale.	15	
Coffee, first quality, -	33	
second do	27	28
Cotton,	17 41	45
Twist, No. 5, No. 6 a 10, -	75	46
No. 11 a 20,	53	
No. 20 a 30,	75	
Thocolate, No. 1,	33	
No. 2,	28 25	
No. 3, box	20	20
dipt,	18	19
spermaceti,		scarce
Cheese, American, lb.	10 60	15 65
Fish cod dry qtl.	3 50	0.0
Fish, cod, dry qu. herrings. Susquehannah, bbl.	ol.2 50	new 3
mackarel, No. 1 a 3	6	9
shad, trimmed, -	7 75	7 87
Flour, superfine, - bbl.	5 50 5	6 5 50
fine, bbl. middlings,	4 50	5
rye,	<b>4</b> α	4 25
Flazseed, rough, cask		
cleaned, hush	do	
Flax, In. Hides, dryed,	12	15
Hogs lard,	12	13
Leather, soal,	25	30
Molasses, Havana, gal.  New Orleans, -	45 50	50 60
sugar house,	f	00
Oil, spermaceti, gal.	1 50	
PORK, mess or 1st quality, - bbl.	18 a	19
prime 2d do eargo 3d do	15 a	16 15
Plaster, ton	5	
ground bbl.	1 75	
Rice, lb. Spirits, Brandy, French, 4th proofgal.	2 6	2 50
peach, 4th proof	1 25	1 50
apple, 1st proof	75	
Gin, Holland, 1st proof	1 25	1 50
do. 4th ρεσοή do. N. England	50	60
Rum, Jamaica,	1 50	
American, 1st proof	50	
Whiskey, 1st proof Soar, American, white, lb.	35	
Soar, American, white, lb.	9	
Sugars, Hayana, white,	19	
brown, N. Orleans, -	11	12
loaf, lb.	25	
Salt, St. Ubes, bu.	70	
Liverpool, ground,	75	
Shot, all sizes, lb.	12	1
TOBACCO, Virginia fat, cwt.	6 50	
Rappahannock,	5	5 50
Kentucky,	6 50	1
small twist, manufactured, lb.	25 50	
TEAS, Bohea,	63	
Souchong, lb.	75	
Hyson Skin	75	1
Young Hyson, Imperial,	1 25	
WOOL, Merino, clcan,	80	1
unwashed, -	40	
crossed, clean, unwashed, -	65 35	1
common country, clean,	37	1
unwashed	25	L .
skinner's,	35	}

### OBITUARY.

Departed this life on the 7th inst. in the 19th year of her age, Eliza Anderson Gonerror, step-daughter of Maximilian Godefroy, Esq and grand-daughter of the late Dr. John Crawford. The circumstances attending the illness and death of this young lady, are such as cannot fail to interest all who knew her, at the same time, that they will afford an instructive lesson to the numerous youthful associates, from whom she had parted only a few hours before, in the full glow of health and loveliness. Intending to accomp ny her parents to England, where she pleased herself with the fond anticipation of seeing the exalted, but unobtrusive talents of her father, called into useful exertion, by that necessary patronage which had been denied to him here, Miss Godefroy embarked on board the Ship Ceres, high in health, light and ouoyant in spirits, gay visions of future prosperity fitting before her fancy, and her youthful heart throbbing with the purest filial love. But, alas! how are the brightest prospects obscured, the fairest hopes blasted, in a few short days. On Wednesday, the 1st inst Miss Ghaving dined in her usual health and spirits, was suddealy serzed with a chill and pain in the back - the too sure prenionitory symptoms of that dreadful disease, which has been so long desolating our city. But nerther the young lady herself, nor her parents admitted a thought of danger. Her sufferings during the whole of that night and the next day, were attributed to a far different cause; nor was it until one of the other passengers died, in the cabin, evidently of the yellow fever, that the horrible reality flashed upon the minds of her agonized parents Ignorant of the nature of the disease, without medical aid, the feelings of her afflicted parents may be conceived, but who would attempt to paint them! On Friday night, for the first time, a cathartic powder, the only medicine within her reach, was administered, and produced its expected effect; but the disease grew hourly worse, and no hope remained, but in landing her where medical advice could be procured On Saturday morning, she was brought on dock, and expressed great anxiety to be taken ashore. The ship, which had for several days been beating against head winds, now anchored about four miles from the shore, and a boat was sent to seek for some hospitable roof to receive this afflicted family; but the alarm of the yellow fever had preceded them, and not a house for some miles around, would admit them to its shelter. These are some of the inhuman effects of the false doctrine of contagion! A physician, however, was found, who came on board about four o'clock in the afternoon; and though he confirmed the heart-rending suspicion of the parents, as to the character of the disease, he excited a faint hope, that the youth and constitution of the sufferer, might ultimately triumph, if she could be removed from the vessel. But, alas? how was this to be effected, since all had refused her admittance. One only chance remained, and that was, that the prayers of an agonized mother might prevail, where less interested entreaties had failed. The mother, then, leaving her daughter in the hands of her devoted father, went on shore, to implore the charity of a roof. The convulsive sobs through which her prayer was uttered, touched the heart of a poor woman, whose miserable hut, which seemed the abode of poverty itself, was situated in the midst of a marsh, enveloped in clouds of musquetoes; this wretched but charitable shelter was freely offered, but the night had so far advanced, before the return of the mother to the ship, that Miss G. could not be removed until Sunday morning. She was then lowered down to the boat in a hammock; the waves were rough, and the distance to land four miles. During this long distance the mother and the daughter were necessarily separated, and the former knew only that the latter still breathed, from the appaling sound of the vomiting, which occasionally struck its death peal upon her ear. She was at length landed, and laid upon her miserable pallet. The removal seemed to have producd-a good effect, and in a f w minutes she appeared

be stronger, than she had been for several days. She

implored for a glass of cold water - but, alas! the marsh by which they were surrounded, afforded no such com-

fort as that; not a drop of cold water was to be found for miles. The physician saw her soon after she land-

ed, and raised the drooping spirits of her parents by his favourable prognostics. In the afternoon, he saw her again, and still thought, that though her case was critical, it was by no means desperate. The food hopes, however, which this opinion excited, were but of short continuance; she soon grew worse, and towards evening her sufferings were such, as none but those who have witnessed the struggles of that horrible disease, can conceive. At daylight the physician was again sent for, but he had been called to a distance from home, and saw his patient no more. On Monday evening, about 7 o'clock, the mortal contest began. What a day and night to her afflicted parents! Oh, what shall blot from their memory the horrors that ushered in the closing scene of this dear innocent! Her reason wandered greatly, but the delirium was not continued. She had not the remotest idea that she was dying, but still believed, with singular simplicity, that all her tortures proceeded from sea-sickness. Her parents would not suffer her to be alarmed with the fear of death, because they truly believed, that her life had not been such, as to incur the very heavy displeasure of her Maker, whose mercy must surely be a safer refuge, than the repentance of a disordered mind. mother asked her, however, if she remembered her prayers? " Dear mother, to be sure I do," the lovely sufferer replied - and then repeated the Lord's prayer, in accents that no mortal eloquence could have supplied; every letter and syllable were distinct, every accent and emphasis in its place; her voice was solemn and majestic; she spoke as if she had been in the immediate presence of her God, and addressing him in the most perfect confidence, that the petition Jesus Christ had taught her, would never be offered in vain-

On Tuesday morning, at a quarter before 11 o'clock, the last mortal agony was over. A few minutes before this, her father made the sign of the Cross, and pointed towards heaven; she gave a clear indication, that she understood him and breathed her last, as if assured of being received at the mercy seat of God.

So great was the general alarm in the neighbour-hood, that even the mechanic, who made her a common rough coffin, such as charity bestows upon the meanest beggar, was afraid to bring it to the house; and for some time the agony of the Scene was heightened, by the fear that no friendly hand could be found, to assist in the last mournful offices. A charitable neighbour, however, at length offered his services; a place was given in his orchard, the burial place of his family, and her remains, placed upon a common tumbril, were carried to their last home by a few of the ship's crew, and followed by the weeping father-her only funeral rites, their tears. When it is considered, that this young lady was the grand-daughter of a man, who in the very year of her birth, had devoted himself, soul and body, without hope of earthly reward, to the service of the suffering poor of this city, in this same awful disease; that she lay for days in torture, without medical aid, and was at last taken by charity into a hut, where not even cold water could be had to moisten her burning lips, and that she at last found a grave, where her hiving footsteps had never trod, where no kindred or friendly eye can ever drop a tear to her memory—when above all, we consider the afflicting situation of her parents, the cruel circumstances, which drove them to seek some more friendly asylum abroad, than had been granted to them here; that this was their only offspring, the sweet and lovely hope of their declining years, the sole object that animated their struggles through a persecuting world, we are forced to bow in silence to the dispensations of God, to believe that his Providence, if it does not seem always merciful, is always just; and to hope, that though his ways are inscrutable, they lead to everlasting good.

PRINTED EVERY FRIDAY AT \$4 PER ANN.

FOR JOHN S. SKINNER, EDITOR,

At the south-west corner of Market and South streets,
ALTIMORE.

BY JOSEPH ROBINSON,

# AMERICAN FARMER.

# Bural Buonomy, internal improvements, news, prices current.

" O fortunatos nimium sua si bona norint

" Agricolas." . . . . Virg.

Vol. I.

experiments.

# BALTIMORE, FRIDAY, OCTOBER 8, 1819.

Num. 28.

## AGRICULTURE.

[Communicated for publication in the American Farmer.]

CONSTITUTION OF THE SOUTH CAROLINA AGRICULTURAL SOCIETY.

We, the subscribers, in order to improve agriculture and economy, do hereby form ourselves into a society, and for its government, adopt the following constitution:

Art. 1. This society shall be styled, The South

Carolina Agricultural Society.

Art. 2. The objects of the society shall he, to discover new and hidden manures, to facilitate the collection of manures generally, and designate the best mode of their application to the different objects of cultivation. To procure and improve the implements necessary in husbandry; to improve the style of rural architecture; to improve the breed of domestic animals; to devise means for destroying vermin and insects, which are injurious to husbandry, avoiding their devastations, and guarding against other casualties; to collect all foreign and domestic trees, shrubs, vines, plants, seeds, and grains, which may be deemed necessarv or useful for subsistence or comfort; for live fences, fuel, or timber; and to make the necessary experiments as to their growth and adaptation to our climate, and different kinds of soil; and, if approved, to extend and promote their growth and culture : to discover, if pessible, new and profitable objects of commerce from the products either of the field, the forest, or the bowels of the earth; and whatever else shall tend to improve the agriculture and rural economy of the country And the better to effect the above objects, which are hereby declared to be unalterable, and from which the society will never depart, it shall, so soon as its funds are sufficient for that purpose, purchase or procure lands for one or more farms, on which to make its

Att. 3. Any person may become a member of this society, who will subscribe his name to the constitution, or signify by letter his wish to become a member, and who shall at the same time pay into the hands of the treasurer five dollars; and every member shall pay into the hands of the treasurer, it each abunal meeting thereafter, the sum of five dollars, except those who may be members for life. Any person who will, at the same time of subscribing, or at any time thereafter, pay into the hands of the treasurer fifty dollars, shall be a member for life. Each member shall remain such, until he signify his intention to quit the society at an annual meeting, when upon paying all arrearages, if any be due, he may cease to be a member.

Art. 4. Honorary members, on being proposed at any meeting of the society, may be elected by ballot

by a majority of the members present.

Art 5. The society shall meet annually, on the Tuesday after the first Monday in December, at nine o'clock in the morning: but special meetings may be called by the board of managers. The annual and special meetings shall be held in Columbia, at such place, as the board of managers may provide.

Art 6 The society shall have a president, four vice-presidents, a corresponding secretary, a recording secretary, a treasurer, and five curators, to be elected by ballot at cach annual meeting, by a majority of the members present; and who shall continue in office, until a new election shall be made. They shall be styled, "The Board of Managers of the South Carolina Agricultural Society," a majority of whom shall constitute a querum to do business. The board shall possess all the executive powers of the society except such as are specifically assigned by this constitution, and shall apply and distource all monies appropriated by the society, according to the directions of the society

ty, if any be given; but if no directions be given, then according to their own discretion and judgment; and shall report at each annual neeting a full statement of their proceedings during the preceding year. The board shall have power to fill any vaenity occurring in that body, and shall meet regularly on the list Saturday in every month, and also at any other times that they may think proper. It shall be their duty to propose at the annual meetings of the society, any alteration in the constitution, which they may deem expedient

Art. 7. The president, vice presidents, secretaries, and treasurer, shall be the officers equally of the so-

· ciety and of the board.

Art. 8 The president shall preside in all the meetings of the society and of the loard, to whom all motions shall be addressed, and by whom all decisions and votes of the society or board shall be declared in the absence of the president, the senior vice-president present, and in the absence of these officers, any number who may be appointed, shall preside for the time heige.

Art 9. The corresponding recretary shall inform honorary members of their election, explain to them the objects of the society, and respectfully solicit their co-operation. He shall read to the society all communications and answers which he may have made or received during their preceding recess, and shall make communications of such a nature, and to such society, bodies, and individuals as the society or the board shall direct. He shall preserve in a book to be provided for the purpose, copies of such communications and regularly file all letters and communications, which may come into his possession relating to his office.

Art. 10. The recording sceretary shall attend all the meetings of the society and of the board, record all their proceedings, keep a regular list of the names of the members, with the amount of their annual or life subscriptions; of all donations to the society, with the same of the donors; all of which shall be open to the view of the society and of the board at any meet

Art. 11. The treasurer shall faithfully take care of all monies and specialities belonging to the society, collect the amounts when due, and keep a regular account of receipts and disbursements, so as to be able to exhibit the state of the funds to the society or board, whensoever required by either. He shall not pay any money out of the funds of the society, unless by an order of the board, signed by the president, or officer presiding in his place. He shall be entitled to receive two and one half per cent, on all monies which he receives, and the same amount on all that he pays unt. He shall give bond with security, to be approved of by the board, for the faithful performance of his duties.

Art. 12. The curators shall take the charge and eare of all the property and articles belonging to the society, except such as are specifically assigned to other officers They shall also take measures for collecting all native fossils, earths, and substances, proper for manures, or deemed so to be, and to eause or procure the same to be analysed; to promote experiments to be made by eareful agriculturists of any such fossils, earths, or substances, and to procure in every practicable way, explorations for the discovery of native substances, either known, or presumed to be manures, or auxiliaries in fertilizing land, to take proper measures for making botanical researches, and experiments of such researches; to collect models of the best agricultural instruments, to cause them to be deposited in the apartments of the society, to keep minutes of their proceed nes, and to make a report thereof at the annual meetings of the society.

Art 1 This constitution may be altered at the annual meetings of the society; but no alteration shall

be made, unless it shall first have been recommended by the board of managers, and then sanctioned by the votes of two-thirds of the members present: provided, that not fewer than thirty of the members are present; but the quorum to transact the ordinary business of the society shall consist of thirteen members.

Ratified this 6th June, 1818.

The society then proceeded to the election of offieers, and the ballots being counted, the following gentlemen were chosen:

President - Gen. WILLIAM R. DAVIE.

Vice Presidents-Col. Francis K. Huger, Col. John-Taylor, Col. John J. Chappell, Col. Wade Hampton Corresponding Secretary-Dr. Edward Fisher.

Recording Secretary-David J. McCord-

Treasurer -- James S. Guignard.

Curators—Mr. Nicholas Herbemont, Dr. James Davis, Mr. Zebulon Rudulph, Mr. John Howell, Mr. Jesse M. Howell.

The president, Gen. Davie, not being present, Col. J. J. Chappell, vice-president, took the chair, and the

following resolutions were passed:

Resolved, that the sum of one hundred and fifty dollars be, and the same is hereby appropriated, to be at the disposal of the board of managers for the ensuing

Resolved, that the proceedings of this society, together with its constitution, be published in both the papers of this town, under the direction of the corresponding secretary.

J. J. CHAPPELL,

D. J. M'Corn, Recording Secretary.

J. J. M. Corn, Recording Secretary.
June 6, 1818.

#### AN ADDRESS,

Delivered hefore the South Carolina Agricultural Society, at their anniversary meeting, held in Columbia, on the 8th of December, 1818, by William R. Davie, Esq. president of the society; together with the report of the curators for the preceding year.

The specific enumeration of the objects and duties of the society, contained in the constitution, might supercode the necessity of any address on the present occasion. This, however, being the first meeting of the society since its organization, I feel it as a kind of duty to submit to your consideration a few observations on the present state of agriculture, and the lead-

ing objects of our association.

Agriculture, maoufactures, and commerce, are the acknowledged physical sources of national wealth and prosperity; and the God of nature seems to have decided for us the great question of preference, so long agitated by political economists. Agriculture has been the principal occupation of the people of South Carolina, from the earliest settlement of the country, and continues to maintain its ascendant in their estimation, as the most productive employment of capital or labour.

The sea-hoard range, that highly favoured portion of the state, produces in the greatest perfection, the richest staples of our country; and I have taken it for granted, that the union of experience, capital, and skill, have probably produced all the improvement in the culture of rice, of which this interesting article is susceptible. The superiority which this valuable product maintains in the foreign market, is strong evidence of its excellent cultivation, as well as the improved means of preparing it for consumption and

I presume that the tide-swamp, appropriated to the cultivation of rice, still preserves its original fertility, as both the course of preparation and culture have rather a tendency to improve than deteriorate the productive powers of this peculiar soil. The cotton lands, I am aware, cannot possess these important advan-

observations on the nature of its various soils, or the lowed by emigration, but extended to the interests of present state of agriculture in this interesting section, posterity and the lasting welfare of his country. It diversified by so many peculiarities, derived from is a lamentable fact, that the generality of our citizens difference of soil, situation, and climate. But I per- cultivate their lands, as if they were but tenants at mit myself to hope, that the fortunate proprietors of will-as if there was a general presentiment, that these productive lands have not abused the bounty of we were all sooner or later destined to join in the a beneficent Providence, by falling into the apathy and current of western emigration; and upon our preerrors, which have marked the progress of agriculture in other parts of the state.

Scarcely have three-fourths of a century passed, since the entigrants from Pennsylvania, and the upper moment, may operate as decisively as the mandate of parts of Virginia, commenced their settlements in that a despit to banish us from our country. range of the state situate above the line of the longleafed pine. The whole aspect of the country from this line to the mountains, including two-thirds of the to a nation - whether these great objects depend upon geographical surface of the state reduced to cultivation, and at least three-fourths of the white population, presents every where to the eye, a broken or undulcorrectly defined with us to consist of a sufficiency of from the mountains, running nearly parallel to each it follows, if we possess a soil, which is productively other. The dividing ridges are again intersected by their lateral and tributary streams, forming deep val- land-owner, we may be said to be wealthy; but, on lies, and throwing the whole surface of this country the contrary, if our lands are badly cultivated, and into a continued succession of ridges and isolated hills, yield but little revenue to the proprietor, our country peculiarly exposed, under the corn and cotton culture, may be truly said to be poor. To every South Caroto having the soil washed off by the heavy rains of every season.

A large proportion of this extensive and once fertile range of country, has been cleared for cultivation, in distressing sensations to reflect, that in a few years, a kind of succession extremely unfavourable to the perhaps a period less than since the settlement of our preservation of its fertility. The means of the first country, this state is destined to lose the source of her settlers were generally confined to their own personal political importance, and after having maintained a efforts. Removing the timber, and fencing the land, distinguished pre-eminence in the southern section of was an appalling effort to a single individual acres, commensurate only with the demands of imme-children, to retrogade into poverty and insignifidiate subsistence, were cleared; these were cultivated cance. until they were nearly exhausted, when another effort was made, and another field added. When this was also worn out, they had recourse again to the woods, the state, will, I hope, be sufficient to enable us to dis and no means were used to preserve the new additions from exhaustion, or to restore the old worn out land. 'The course of crops adopted by the first settlers, was comparatively favourable to the soil, being an alternate change of corn and small grain; but this manner of cropping obstinately continued without rest or mannre, necessarily exhausted the fertility of the soil and this fatal result was accelerated by grazing the fields in the summer and autumn after every crop.

The introduction of the cotton culture makes a dis tinguished epoch in our agricultural annals, and gave a strong stimulus to industry. Large quantities of of the subject, to the members of this society, would land have been cleared within the last twenty years, and a new tax was now imposed on the strength of the suil, compelled to bear alternate crops of corn and cotton, or successive crops of the latter. This system, if it may be so called, of perpetual exhaustion, has impoverish door lands to an alarming degree, and, if pursued for half a century more, would make this interesting portion of the state a perfect desertexhibiting a naked barren surface, spotted here and there by a few patches of broom-straw, or starved "What stronger proof," says a distinguished cultishrubbery, and ruined from future recovery by deep vator, "can exist of our agricultural ignorance, than washed gullies, the permanent and accusing witnesses a notion of succeeding in both lines on the same land, of our apathy and indolence.

The middle range of the state presents generally a level surface. The cultivated land is confined principally to the borders of the water courses, and the intermediate space is known under the descriptive denomination of pine barrens. In this tract of the state, the alluvial soil along the banks of the large rivers, has buffled the efforts of a rumous culture, by its depth, richness, and annual additions; and the equality of the surface has preserved the land generally from the dreadful effect of washing rains. the same murderous system of culture has been pursued, and almost every plantation beyond the line of alluvial deposit, exhibits a frightful picture of extreme exhaustion, with a few exceptions highly honorable to the foresight and industry of certain indition a variety of soils, but even those who have to viduals, whose successful example has unfortunately struggle with natural disadvantages in raising stock. had little effect upon their neighbourhood.

The contemplation of this faithful portrait, in which by a judicious choice of the necessary means a few of the prominent features have been barely sketched, without any colouring to excite the imagina-

tages; but my acquaintance with this part of the state, truly distressing to the patriot, whose views are not by ploughing "both ways" even in the most proken are to the patriot to authorize me to make any limited to the patrix profits of a few years, to be followed, and frequently "laid by" in the planter's phrase, sent wretched system of agriculture, this presentiavarice, looking only to the advantages of the present

Whatever may be the opinions of political econo mists, as to the real sources of wealth and prosperity agriculture, or commerce and manufactures -our resources being decidedly agricultural, wealth may be cultivated, and yields a considerable revenue to the hnian, who feels an interest in the welfare and character of his country, and who extends his ideas farther than the present moment, it must excite the most A few the confederacy, is at length doomed by her own

The views we have taken of the present state of agriculture throughout the middle and upper ranges of cover the nature and source of those imperfections in our rural economy, which now appear to menace us with such serious consequences

A leading error which has operated so powerfully to impoverish our lands, has been severe and successive cropping the same land, connected with the fatal error of grazing the same fields, after the crop has been taken off; the result of this course of a perpetual succession of exhausting crops on the land, withour rest or manure, or the intervention of any improving crops, is so obvious, that any observations on this part be mere common-place. Lands we see sink under successive eropping, and this effect must be greatly accelerated by the ruinous practice of grazing the fields under circumstances most likely to prove mjurious; the land already sufficiently exhausted, is again taxed the same season, by being grazed to the naked earth, and when the plough returns there is not astraw or a blade of grass to be restored to the exhausted by respectively violating the first principles of both; to succeed in grazing, it is necessary to cover the earth with a strong and rich turf, to succeed in agriculture, this turf must be destroyed; thus we propose to raise large stocks without grass, and large crops on land rendered too poor to produce them. destructive course has been adopted, as the easiest means of supplying the defect of the natural range, and the want of a regular provision by other means of winter food; but appropriate pastures on a congenial soil, and meadows cultivated in the productive grasses, are the proper means of supporting our stock, fertilizing our lands, and avoiding the rumous ab surdity of uniting tillage and grazing at the same time on the land; the greatest part of our plantations conwill not find much difficulty in surmounting them,

To the upper part of the state, these evils have been greatly increased by indiscriminate and shallow ploughtion, must be painful to the real agriculturist, and ing-Indian corn is generally cultivated in this section, object—an object so evidently connected with the

in the last ploughing up and down the hill; the loosened soil is then swept off by every rain, aided by the nlough in summer, and the frost in winter. To remedy this evil in the hilly parts of Scotland, Lord Kaimes recommended oblique ploughing to his countrymenthe furrows making such an angle with the declivity of the hill as to give the water a more gentle descent; this was certainly an improvement; but the horizontal ment is not illy founded. Apathy, or an ill-directed direction now practised in Virginia, connected with deep ploughing, is in my opinion, a preferable mode : and the most likely yet suggested to protect the soil from the washing effect of heavy rains. Shallow ploughing has been one of the principal means of impoverishing the lands in the upper country, and its baneful effects may be traced in almost every part of the state; the soil left loose for the depth of two or three inches, opposes liltte resistance to the weight of the water, which is soon accumulated on the surface by lating surface. A number of large rivers descend capital, and of cultivated and productive land. Hence not being able to penetrate deeper, and the soil is then carried off irrecoverably to the vallies or branches below. The ploughs in general use are only calculated for this kind of shallow tillage, and a change in this important instrument of agriculture must be effected, before this evil can be sufficiently remedied. Improvements in the implements of husbandry have, in every country, generally kept pace with the progress of the science of agriculture, and the skill and capital employed in it; yet with us they are still in a very imper-fect state. The ease with which abundant crops have heen raised on fresh and fertile lands, has rendered attention to this subject less necessary; but the period has now arrived, when art and industry must supply the failure of native fertility. I am well aware of the attachment of the husbandman to the implements, with which he has been accustomed to work from his infancy, and that some difficulty may be anticipated in introducing any change; but upon examining the general agriculture of the state, every plantation presents some plan or feature, new or at least peculiar, and our agriculture appears every where like an individual essay. From these circumstances we may reasonably infer we shall not, as in similar attempts in the old countries of Europe, have ancient and stubborn prejudices to combat, prejudices which make ignorance and error descend as a sacred inheritance from one generation to another. I think we have strong grounds to hope that we shall meet with minds ready and eager to adopt any rational improvement, stimulated by that spirit of enterprize, which is the peculiar attribute of a freeman, the proprietor and cultivator of a grateful soil. I would therefore submit to the consideration of the society, the propriety of supplying the proper officers, with ample means for making a complete collection of the most approved implements of agriculture, to be kept for inspection at Columbia, where they could be examined with the most convenience by our fellow citizens.

The possession of any thing, which contributes to the comfort and happiness of man, may be considered as wealth, but this general term wealth when applied to a nation, must always possess the important attribute of durability. The merchant may be rich by the possession of consumeable luxuries, and the nation rendered poorer by their acquisition and consumption. Thus a productive soil may be justly esteemed the most solid species of national wealth; but to sustain this character, it is necessary that the soil should also maintain this distinctive quality- it must be permanently productive.

In the short and necessarily rapid view which we have taken of the present state of agriculture, it is plain, that although a considerable part of the land subjected to cultivation may still remain in good heart, vet a large proportion is either entirely worn out, or now in the last stages of exhaustion-that we have arrived at that period, when there must be a complete change in our system of agriculture, or give the deathblow to the remaining productive powers, and consequent value of our lands. On this subject, however serious the aspect may be, there is no occasion for despondency. A bountiful Providence has placed within the reach of intelligence and industry, a profusion of means for fertilizing the soil. The earth-all the el ments which surround us, may be compelled, under the direction of man, to contribute to this important

great and benevolent views of Divine creation. Among [covering of weeds and grass, little inferior to a crop] the manures of mineral or fussil origin, lime, marle, and gypsum, have been the subjects of extensive experiment, both in Europe and America. Line may be conveniently procured in some parts of the state, and marle I have no doubt may be found in abundance in almost every district; but some difficulty may exist for a short time, in obtaining a sufficient quantity of gypsum to enrich such an extent of impoverished country, placed principally beyond the range of water carriage; this cyll will, I hope, soon be remedied by the spirit and enterprize of our government; when we shall see this powerful ally of the vegetable plan of improvement, distributed from the boat in every district of the state, imparting life and activity to our industry and agricultural improvements.

Without detracting from the merits of the Tullian system of fertilizing the earth by increasing its fria-bility, and thereby its means of absorbing atmospherical manure, for merit at certainly possesses, it is principally through the agency of the vegetable creation, that we may command in the greatest extent, the inexhaustible resources of the atmosphere. Under this class of manures, the produce of the farm yard may be ranged—by this easy and simple process, every species of the refuse and offal of a plantation may be converted into the most efficient means of fertilizing our fields. The obvious sources for forming this kind of artificial manure, are the straw of small grain, the offal of animals, and the litter of Indian corn: materials furnished on every plantation, now generally neglected, and frequently destroyed as a nuisance. The production of Indian corn, is perhaps one of the greatest efforts of nature, and it may justly be considered an exhausting crop; but the litter which it furnishes to the stable and the farm yard, under proper management, makes an ample return to the earth. and thus it has been justly observed, "it yields food in abundance for man, beast and land."

I confidently hope, that the society will soon be enabled to disseminate important information, on the best mode of forming and applying these artificial manures.—Various means may be suggested by experience to increase the quality, and economise the powers of this species of manure, while the manner and time of application to our peculiar crops must also be-

come objects of importance.

with a view to improving the soil, range also under the head of vegetable manure; the common field Pca has been cultivated in North Carolina with this view. and with great success, by being planted among the Indian corn, in what is technically called "the step," or sowed broad cast when the crops are "laid by This whole class of plants are supposed to attract a great part of their nourishment from the atmosphere; the carth is shaded, evaporation is prevented, and a large stock of manure returned to the earth, when the vine is ploughed in, the land remaining inclosed and ungrazed.

Among the various modes of fertilizing the earth, I know of none so well suited to the large scale on which planting is calculated, or more efficient than the system of inclosing. The whole surface of the earth is covered with vegetable productions of some kind congenial to the state of the soil. This is a universal law of nature, every where in activity, and the beneficent agent to which we are indebted for its fertility. I take it for granted that the position will not now be questioned, that productive soil is principally compesed of vegetable or alluvial earth, and that the productive powers of the latter may be resolved into the former, the real distinction being little more than the accumulation and accidental change of situation. If we have drawn from the soil this vegetable matter so as to diminish its productive powers, the plain remedy is to restore it; and the interest of the planter or farmer is to adopt the most effective and least expensive means. In the middle states, red clover is considered the best agent for effecting this purpose, and days of the Show, who will deliver them, on tain a watery fluid: various substances are employed this opinion scems to be justified by extensive experiment and the experience of several years. But this property is not peculiar to any particular plant, the whole vegetable creation is destined to contribute to this great object. Inclose your fields, save them from the hoof and the tooth of your stock, and where there is any soil retained, the earth will be clothed with a

difference of opinion still existing, respecting the proper time of ploughing in this vegetable clover, whether effect. As a preparation for a corn or cotton crop, I and on the said day, of Mr. Kuhn, at Brighton. should certainly incline, from the results of my own experience, to decide in favour of the dry state, on the principle, that the manure in this state will be retained much longer in the earth, and be less hable to pass off in a guseous form. An eminent writer,\* distinguished by his lectures on the elements of Agricultural Chemistry, remarks on this subject, that "the great object in the application of manure should be to make it afford as much soluble matter as possible to the roots of the may be entirely consumed in forming the sap or organized parts of the plant." Mr. John Taylor, of Virginia, speaking of this mode of improvement, observes, that "to draw from the atmosphere the trade, to give the manure the most lasting frame, and to their Agricultural Friends will fill them as deposit it in the most beneficial manner, are the primary objects of the inclosing system. Permit me, gentlemen, to avail myself of this public opportunity, ling to other for premiums. (of any kind) will be to express my gratitude to this distinguised benefacting to offer for premiums, (of any kind) will be tor of American husbandry; the friend of agriculture attentive to make their entries on or before the is the friend of man. Mr. Taylor's excellent essays on the inclosing system need no comment; his agricultural principles are generally sound, and his plans always practicable upon any scale that wealth may here to that rule, and which will prevent much warrant or poverty prescribe.

As the most plausible theories frequently fail in agriculture when tested by practice, the engagement Friends, who have fine animals of any descripto establish one or more farms to make experiments, was certainly a proper provision in the articles of our association; but should we be even fortunate enough tend to appropriate their fine ranges of pens, on to find our funds sufficient to effect this desirable ob the 13th of Oct. for the Public Sale of such ject, yet I flatter myself we shall not limit our exer-lanimals, having engaged an Auctioneer, free of tions to this establishment alone, but that the spirit of experiment and improvement will animate every member of the society, and finally spread through the sider an important addition to their Show, and whole community: I am firmly persuaded that the will enable the owners to obtain the highest support and usefulness of the society, will, in a great prices; they will please to attend to the rules measure, depend on the communications of practical agriculturists, from which a body of information, high-Leguminous crops, when planted and preserved by important to the objects of our association, may be collected and published by the society in that form, most likely to promote a general and correct know-ledge of the principles and practice of agriculture.

(To be continued.)

### CATTLE SHOW, &c.

The public are hereby informed, that the Cattle Show, Exhibition of Manufactures, Plough ing Match, and Public Sale of Animals, &c. heretofore advertised to be held at Brighton, on the 12th and 13th of Oct. next, will take place on those days; and that every arrangement is and where every care will he taken of them.

Any persons having implements useful in husbandry, and that are not in common use although Waver, one quart.
not entitled to premium, would do a service to in obstinate cases, it may be injected into the urethra, the community by exhibiting them in their hall : in which case it should be diluted with an equal quan-

Massachusetts Society for Promoting Agricul moderate dose of physic should be given. ture, that have not received their certificates. will find Mr. Jacob Kuhn in their hall, on both and raises the cuticle into small bladders, which conpayment of \$5, (the sum agreed on in lieu of for this purpose, the principal of which is the canthapayment of \$5, (the sum agreed on in hen of ris or Spanish fly, (lytta vesicatoria;) euphorbium, all annual assessments) those members on the hellebore, corrosive sublimate, oil of origanum, oil old list, who prefer paying their annual assess-of turpentine, &c. are also occasionally employed. ments, will have an opportunity so to do.

· Sir H. Davy.

covering of weeds and grass, little inferior to a crop A dinner will be provided for a limited num-of clover, for the purposes of manuring. There is a ber, at Mr. Fuller's Tavern, on the 12th, tickets for which may be obtained any day previous at in a green or dry state, to produce the most beneficial Messrs. Wells & Lilly's, Court-street, Boston,

Business will commence on each day at 9, A. M. The first day a procession of the trustees and members of the Society, together with their invited guests, will move from the Agricultural Hall to the Meeting-house, at half past nine precisely, where prayers will be offered, and an essay on some agricultural subject; after which plant, and that in a slow and gradual manner, so that it the president will announce the names of the gentlemen, composing the different committees, and the other arrangements for both days.

The trostees have, at great expense, provided greatest quantity of manure, to check the loss the an excellent range of pens, for the accommodaearth sustains by evaporation during the process by tion of cattle of every description. They trust

11th of Oct. with Mr. Jonathan Winship, of Brighton, as they are determined strictly to adconfusion on the days of the Show.

The trustees would request their Country tion to dispose of, to bear in mind, that they inany expense to the proprietors. This they con-

JOHN PRINCE, Committee of P. G. BROOKS, arrangements. S. G. PERKINS,

It is requested, that the printers of Newspapers in the state of Massachusetts, would insert the above.

# Extracts from a Compendious Dictionary of the Veterinary Art.

[Continued from No. 27-p. 213.]

BLENNORRHEA, or Mattering of the Yard. A mucous the reception of all agricultural implements and manufactures that may be offered for premiums. An excellent hall is ready for discharge from a stallion's yard, generally caused by the reception of all agricultural implements and covering too frequently. This disease generally soon manufactures that may be offered for premiums. manufactures, that may be offered for premiums, be more quickly stopped by washing the parts frequently with the following lotion, cold:

Acetate of lead, two drachms. Sulphate of zinc, two drachins.

also any uncommon vegetables, grains & grasses, tity of water. The same remedy is applicable to Those gentlemen who are members of the marcs, that have a mucous discharge from the vagina.

BLISTER An application which inflames the skin, There are three different forms in which blisters may be used, that is, as an ointment, a liniment, and a tincture; the last is commonly named Liquid Blister.

well rubbed in, the horse must be prevented from biting or rubbing the part, which he is generally apt to do, even for several days, which sometimes causes a serious blemish.

Blistering Ointment, No. 1, or Mild:
Hog's lard, four ounces.

Yellow wax, one onnee.

Melt over a slow fire, and then add oil of turpentine or origanum, one ounce. Powdered cantharides, six drachms.

No. 2, or Strong:

Oil of turpentine, two onnees. Sulphoric acid, by weight, six drachms. Hog s lard, twelve sunces.

Powdered cantharides, two ounces. The first two ingredients are to be carefully mixed in a glazed earthen or stone pot, large enough to contain all the ingredients; for if the sulphuric acid is or boiling will take place soon after they are mixed. and dense suffocating fumes will be produced; the mixture, therefore, should be made either under a chimney, or in the open air. When the effervescence has ceased, the hog's lard, having been previously melted, is to be added, and then the powdered can thandes. The last, however, should not be put in until the mixture shall have become rather cool. The whole is to be well stirred together.

Blistering L.niment :

Olive oil, two ounces. Oil of turpentine, half an ounce. Water of pure ammonia, two draehms. Powdered cantharides, two drachms.

Liquid Blister :

Powdered cantharides, one ounce. Spirit of wine, eight ounces. Water of pure ammonia, two onnees.

Let them be kept together about a week frequently shaking the bottle; then pour off the clear lluid, or filter through blotting paper. This preparation may be made much stronger, by dissolving in it from half a drachm to a drachm of corrosive sublimate. When the mildest kind of blister is wanted, a mixture of canthandes and hog's lard, or olive oil, will be found to answer the purpose.

BLOOD. Soon after blood has been drawn it coa gulates, or becomes rather solid, and has the appearance of a dark red coloured jelly, with more or less of a watery fluid, termed Serum. This red coloured jelly consists of two distinct parts; the coagulable lymph, and the red globules or colouring matter When blood coagulates immediately after it is drawn, the red globules and the coagulable lymph remain mixed together, appearing as one substance: but if the blood continues fluid, the red globules being hea. vier than the lymph, will be gradually subsiding, leaving the latter on the surface; hence it is that in inflammatory diseases, in which the blood is always Jonger in coagulating than in health, we find more or less of buff or size on its surface, which is nothing more than the coagulable lymph free from red globules; and it will be found that the quantity of this size will be pretty nearly in proportion to the length of time the blood has remained in a state of fluidity.

BLOODY URINE. This disease more frequently hap pens to cattle than horses, and to the female than the male. It is generally arises in horses from the braises or over exertion; sometimes, however, it comes on without any known cause. In recent cases, where it can he traced to a strain or bruise, bleed freely, give the oily laxative, and rub the loins with some stimulating mixture; but when it comes on gradually, or without any apparent cause, and particularly if there he no symptoms of inflammation, and the animal appears rather weak than otherwise, give the following pow-der morning and evening for two or three days:

Catechu, half an ounce. Alum, one ounce Cascarilla, two draehms.

This may be made into a ball, should that form be preferred, by means of flour and treacle. For the treatment of bloody urine in cattle, see Red Water.

Blow. See Ervise. Blows in the eye are by no

blister is considered by some practitioners the best sometimes causing a very severe degree of inflamma application for corbs, spavins, and splents. The part tion. Farriers often apply stimulating powders on to be blistered, should have the hair cut off as comsuch occasions, which serve only to aggravate the missuch occasions, which serve only to aggravate the mispletely as possible, and after the application has been chief, and sometimes do an irreparable injury. In slight cases it will be sufficient to bath the eye frequently with a weak solution of acetate of lead, or Goulard,s extract, about two or three drachms to a pint of water; this should be used rather warm: a decoction of poppy heads has been found useful also. When the mjury is more severe, bleeding and a dose of some laxative

should likewise be employed Borr. A short reddish coloured worm often found attached to the horse's stomach. Mr. Bracey Clark has written an excellent paper on this subject, in the Transactions of the Linnean Society, from which the following is extracted W must premise, however, that botts are not properly speaking, worms, but the larvæ of the gad fly, which deposits its eggs on a horse's coat in such a manner, as that they shall be received into his stomach, and become botts "When the female fly has been impregnated, and the eggs are sufficiently matured, she seeks among pure, or of sufficient strength, a violent effervescence the horses a subject for her purpose, and approaching it on the wing, she holds her body nearly upright in the air and her tail, which is lengthened for the purpose, carried inwards and upwards. In this way she approaches the part, where she designs to depo sit the egg, and suspending herself for a few seconds before it, suddenly darts upon it, and leaves the egg adhering to the hair, by means of a glutiuous liquor secreted with it; she then leaves the horse at a small distance, and prepares the second egg, and poising herself before the part, deposits in the same way; the liquor dries, and the egg becomes firmly glued to the hair. This is repeated by various flies, till four or five hundred eggs are sometimes deposited on one horse. The inside of the knee is the part generally preferred by these flies for depositing their eggs, and next to that, the side and back part of the shoulder; and it is curious that these parts are most exposed to be ticked by the animal; in beking, the egg adheres to the tongue, and are carried into the horse's stomach with the saliva. The botts attach themselves to every part of the horse's stomach, but are usually more numerous about its farther orifice; and are sometimes, though less frequently found in the bowels. There number varies considera dy, sometimes there are me above half a dozen; at others they exceed a hundred They most usually hang in clusters fixed by their small end to the inner coat of the stomack, to which they attach themselves by means of two hooks. The slowness of their growth, and the purity of their food, which is probably the chyle, must occasion what they receive in a given time to be proportionably small; from which, perhaps, arises the extreme difficulty of destroying them, by any medicine or poison thrown into the stomach. After opiom had been administered to a horse, labouring under lock-jaw for a week, in doses of one ounce every day, botts were found in the stomach perfectly alive. Tohacco has been employed in much larger quantities in the same complaint, and has also been continued without destroying them. While making experiments on glanders, i have found hving botts in the stomach of a horse, though he had been taking for many days arsenic and corrosive sublimate. Another species of gad fly, viz hamorrhoidalis, also produces eggs, which, when reecived into the stomach, become botts of a red colour and smaller. The presence of bots in the horse's stomach, is not easily ascertained, as it is certain that great numbers have often been found in the stomach after death, without appearing to have produced any kind of inconvenience to the animal white alive. Several cases, however, have come under my notice, where they evidently caused the horse's death. In one ease, symptoms of staggers were produced; in several others inflammation of the lungs and other contents of the thorax. Mr. Clark, of Edinburg, has recorded one case where "the coats of the stomach were highly inflamed, and a mortification had taken place on one side, where it appeared of a darker colour; and here there was a small hole, through which a lead probe was passed from the outside into the cavity of the stomach? I have met with similar eases. It does not appear that any effectual remedy has been two in a wet state, letting them have the influence yet discovered for botts; Mr. Blaine says that he has of the changes of weather, but in a wet state unikept them alive for some days in olive oil and in oil

The ointment is generally preferred, but the liquid means an unfrequent occurrence in horses and cattle, of turpentine, and that even the nitrous and sulphu botts are supposed to be irritating the stomach or intestines, it will be broper to give a dose of physic, as it may be the means of expelling such as are de-

[ To be continued. ]

FOR THE AMERICAN FARMER.

# On Hedging...No. 5.

In the year 1806, I had an opportunity of seeing some of the Virginia thorn (before mentioned) in its native soil, and from its appearance had a favorable opinion of its fitness for hedging berries on them were progressing to maturity. I engaged a person in that country to have a barrel of the hawes gathered when ripe, and sent on for my experiment the ensuing spring. They were sent on by water; but being late, the navigation closed by winter, and they remained in Baltimore till the opening of spring, when they came to hand. Not knowing any difference between them and the Newcastle kind, I put them in the ground in bulk, to prepare for the ensuing year; and in the meantime had a suitable piece of ground to receive them, in drills prepared by good tilthing, and planted them as early as the season would admit; thinking some of them might segetate that year, and that by keeping the ground free from grass and weeds, I might have a full crop by the next year

After waiting due time with anxious expectation, I was disappointed; not half a hundred vegetated from the whole quantity (three bushels) of seed. I then obtained a few thousand quicks, or sprouts, of the same kind, of a friend, that was more successful in his preparation of the seed, by having it subbed cut of the covering of skin and pulp, and by that means, with burying it in bulk in the surface of the ground, so lightly covered, as to have the full effect of the frost and changes of weather, to act on them; they came forward into vegetation, as soon, as the warmth of spring acted on them, they grew at least a foot high at year-

I was not alone in my disappointment in the seed vegetating; I found afterwards, several who had procured the berries in the pulp, and were disappointed also in their vegetation. Whether it is from a fermentation taking place with the covering of pulpy nature, and a quantity confined together, that causes the effect, I must leave to others to say; but the only way to avoid that failure, has been to liberate the seed 'rom the covering and dry them; they may then be kept safely; yet they are hastened in their vegetation, by softening the shell that covers the kernel by a further preparation. The general practice has been to bury them in a bag of some kind, that will keep them together just within the surface of the ground, as above stated, in the autumn, as soon as prepared, and take them out in the spring, and put them in a prepared piece of ground, in drills for a nur-

I have had them grow very well with two or three weeks softening the shell, after keeping dry all winter, by immersing them in warm water a few hours, and then exposing to a frosty night or of the changes of weather, but in a wet state unichange; and that part should be particularly attended to, as they are a delicate seedling, easily affected with a late frost; one frosty night may blast all the hope of a promising crop, as it does of many other garden plants, without precautionary steps either to retard the progress of germination, keeping in a cool situation until past the common time of spring frosts, or otherwise have a covering prepared, to make use of if necessary which is easily done. I have been the more particular on this point of making the outset with more certainty, as I might have saved some years of time in my gaining a good hedge, if I had been as well informed on the subject, as time and experience bave taught ; neither do I suppose we have nothing further to learn on that head, but such process as noted, has produced such effects as

That part of the business is more the province of a nursery-man than a farmer I should not recommend in every case, for the agriculturist to raise the quick only in such cases as leisure can afford due attention to the subject. to attend them in the seedling state, keeping them clean and thrifty. There are very few farmers, who are ready even if disposed, to plant all their hedges in one season, as there must be some preparatory measures taken first to regulate the size and shape of their fields and lots in such a manner, as to be most convenient for a permanent standing; such as are not to be permanently fixed, may remain with wooden fences. And a preparation of the groung on the spot they are to be planted, is another nece-sary step, by ploughing and mellowing about four furrows width: some do it by planting a row of pitatoes the year previous with a little manure, which does very well, although I set mine without any preparation before planting, yet I should not say it was the best.

I raised some quicks several times for my own use, but from a press of other concerns, they were too often neglected; I therefore declined, as several made a business of keeping them in a nursery until from one to two or three years old, and being taken proper care of, to insure a sale. Good thrifty two year old quicks, which is the proper age to plant for a hedge at first setting out, may be had for five dollars a thousand: they sold at six a few years back. One thousand quicks are sufficient to plant one hundred pannel of common post and rail fence, of ten feet to the pannel: (more on this point hereafter.) I found best to have a few extra to plant in the garden or some suitable place in reserve, of the same age with those planted for a bedge, to set in the vacancies. occasioned by the death or failure of chance plants. The ground mice are the greatest enemy they have, especially in high loose soils; when covered up by snow in winter, they being foul of the tender bark, peel it round the root sometimes. A filling up of those vacancies should never be omit ted, the ensuing spring, with quicks of equal size of those in the bedge, to keep up an uniformity in great error to omit the doing of it timely, as a young plant set in, when the adjoining ones have got strength, is overtopped by its superiours, and continues an underling, leaving a weak spot, not tour on the mountains and the western waters, tiful and placed rivers of the West, so admirably

them to the earth, well prepared to receive the out. Uniformity in strength is essential, and in my ardnows duties. Thomas Moore, my able and appearance is gratifying, and denonstrates attention to the subject equal to its importance, and that importance is such, that we need not plant or sow, if we neglect the enclosure in any parts exposed to danger, as observed heretofore.

The Virginia thorn obtained in 1805, I planted! on a level surface, without any preparation of the ground, with a spade turning the grass sod under, and keeping the grass roots under, and fresh noul i above, that nothing should rise to impede the growth that year; they uniformly lived, I had scarcely any one to re-plant by. This new ac quisition to my means of acquiring a living fence, gave new life to the subject. I began to pay rame attention to the Newcastle kind, already old enough to have made a fence, if they had been properly treated since they were planted, although the Virginia hall taken the lead in general estimation. I considered it more on account of their foreign origin, and being easier raised, and, as many thought, a more speedy growth; so they were: but I observed more attention was paid to them, than had been to the former. It may be here noted, that either kind will grow with double progr ss by giving the proper attention to them, keeping the ground loose, and free from grass or weeds about the roots, by dressing at least once every year, but twice while young; by so doing, they will either of them acquire strength enough for a fence in six years, alter planting, if then plashed. And to show the effect of neglect, 1 shall note a circumstance of moving a Newcastle t orn hedge, the next year after planting, from native quicks taken out of waste ground, some of them small. Having altered my plan of division, this was taken up and planted in another place. Last spring, (1819) being in search of some stocks, to fill a small gap in one hedge, I found some chance quicks in the place I moved the hedge from, after one year's standing, and they were not thicker at the root than a common goose quill, although they had been eighteen years planted, and growing on a gravelly mill-race bank, covered with grass, but never cultivated, nor the grass taken from the New river at the mouth of Greenbrier roots. It shows what slow progress, when neglected in culture; this was what might be called a poor gravelly bank, yet covered with grass. The thorn seemed lively in its appearance, and grew after transplanting. It shows also the strong in clination to live under every circumstance, after the first year from seedlings.

I do not recollect of ever knowing a thorn to decline or die, unless there was a manifest enemy present.

# Internal Improvement.

FROM THE RICHMOND ENQUIRER. TO THE EDITOR.

### WESTERN COMMUNICATION.

The following very interesting article is extractstrength and appearance in the matured hedge; a |ed from the last letter of Mr. Isnac Briggs, (Ensmall piece of work to perfect the business, but a gineer) to Mr. Peyton, Secretary to the Board, Ohio at the mouth of the Kanawha, and from that of Public Works.

Pattonsburg, Va. 9th. Mo 21, 1819.

I arrived here this morning, from a laborious

formly, until germination appeared, then committed easily repaired in any way, as the mode pointed; and am so far down James river in prosecution of respected colleague, has proceeded westward to finish the examination of ground for a road between the mouth of Dunlaps creek, and the great falls of Kanawha So far as he and I had proceeded together in this examination, we were encouraged to hope that ground might be found between those important points for a good road, not exceeding the distance of 90 miles, and no where exceeding the grade of 5 degrees of acclivity or declivity. It is possible, however, that this hope may be disanpointed, as the examination is not yet complete.

I have now but a few minutes, to state some general results from our survey. I cannot go into The distances from each other and elevation above tide water, of sundry places, are as

Miles. Ps. Above tide James river at the mouth of Craigs creek 925 feet. 48 300 To the mouth of John's creek Craig's creek, at the mouth of John's 1270creek To the highest spring tributary to Craig's creek 2498-Elevation of this spring To the lowest point on the dividing Elevation of the said point 2551-To the nearest stream tributary to Sinking creek 2509-Elevation of the said stream To the mouth of Sinking creek 34 51 New river at the mouth of Sinking 1585-From the mouth of Craig's creek to the mouth of Sinking creek 92 191 Jackson s river at the mouth of Dun-1238 lap's creek To the lowest point on the dividing 16 69 ridge Elevation of that point To the mouth of Howard's creek Greenbrier river at the mouth of tloward's creck 49 287 To the mouth of Greenbrier river On New river and Kanawha From the mouth of Sinking creek to 55 the mouth of Greenbrier 53 1333-To Bowyer's Ferry 46 t30 New river at Bowyer's Ferry To Kanawha at the foot of the Great 20 240 Falls 122 108 Kanawha river just below the G Falls 589-To the mouth of Kanawha river Ohio river at the mouth of Kanawha

From the 21th of May to the 18th of August, there were levelled with one instrument and surveyed 293 miles, 266 miles of rivers and creeks, and 27, twice across the Alleghany mountains.

In the year 1816, the Engineers employed by the state of New York found the surface of Lake Erie to be 564 feet higher than tide water at Albany. If then we assume as a fact, which appears to be quite reasonable, that the average height of the tide, is, at Albany, at Richmond, and at the mouth of the Hississippi, on the same level, Lake Erie is only 83 feet higher than the point to the mouth of the Mississippi, nearly 2000 miles, there is a fall of only 481 feet I often contemplate, with enthusiasin, the numerous beauadapted to an easy and cheap intercourse, with a uninteresting to you, to know what is doing here little improvement by industry and art.

I ascertained mathematically the height of a part of Pond mountain, a branch of the Alleghany, and afterwards obtained a comparative estimate, the best in my power, of the elevation of
the Pond and of the highest knob above the point
observed; the result of these observations and estimate is.

That the surface of the water in the Pond is above tide water 3360 feet; and the Bald Knob, or highest point 4160 feet.

Extract of a letter from Mr. Isaac Briggs, Engineer, to the Secretary of the Board of Public Works (received yesterday,) dated,

PATTONSBURG, 9 No. 23, 1819.

"The day before yesterday, I wrote to thee, in much haste, and being detained here by rainy weather, affords me another opportunity. On tellection, I fear I have committed a mistake, in summing up distances; however, as I kept no copy of my former letter, I am not absolutely certain. Be pleased to examine the distances in that letter, and, if necessary, correct them by the following. The elevations above tide water are all right.

	Miles.P	olcs.
From the mouth of Craig's Creek (May 24) to the mouth of Sinking creek From the mouth of Dunlap's creek to the	92	191
mouth of Greenbrier river	78	36
From the mouth of Sinking creek, on New river, to the mouth of Greenbrier river From the mouth of Greenbrier to Bow-	55	58
yer's Ferry	46	130
From Bowyer's Ferry to, and including the Great Falls of Kanawha	20	240
Kanawha river from the Great Falls to its mouth (August 13) The whole distance tevelled with one in-	94	
strument, and surveyed from May 24 to August 13, 1819	387	15
Rivers and creeks Twice across the Alleghany mountains	360 27	15
ÿ •		

Whole distance as before 387" [The only variation between the letters is as to the "summing up," at the foot—the preliminary items are all the same.—Editor Enquirer.]

It is now contemplated to open a canal between New-York and Philadelphia, by way of the Raritan and Delaware rivers. We have long wondered why this enterprize, as well as that of a canal from Barnstable to Buzzard's Bay; and another from the Delaware to the Chesapeake Bay, have not been opened. A moment's reflection, it has appeared to us, would not only point out their practicability; but, beyond the public good, the immense profits that would accrue to such individuals, as should embark their property in the undertaking. Patriotism, as well as private interest, would seem to stimulate the accomplishment of these important objects.

# UNIVERSITY OF VIRGINIA.

The deep interest we feel in this institution induces us to give the following description of the buildings, from a letter

TO THE EDITOR—dated

Charlottesville, Sept. 22.

"As you are as well as myself a warm friend to work bespeak the University of Virginia, it will perhaps not be investigation.

towards the accomplishment of this great work. must first give you a general outline of the plan that you may know what portion of the work is executed. It is contemplated to build on each side of a lawn about two hundred feet wide, and on a beautiful eminence, a range of buildings, for the accommodation of the professors and students. There are to be five pavilions on each side, from 60 to 100 feet apart; each pavilion has a lecture room and four or five other rooms for the use of the professor. The intervals between the pavilions are filled up with dormitories sufficiently large for two students to each. About thirty dormitories, on each side of the lawn, will fill up the intervals between the pavilions Gardens will be laid off at the back of the pavilions, running back to a street about 250 feet from the lawn and parellel to it. On the back streets, boarding houses and other dormitories will be erected. The lawn will be handsomely improved, by planting trees and sodding it. It will be terminated on the north end by a large circular building, and remain open to the south for any additional buildings, that may be found necessary hereafter. So much for the general plan.-Now for what is executed Two pavilions are nearly completed, they are of the very best materials, and the workmanship is well executed, and finished externally with great taste. One of them has a very rich Corinthian entablature; the other finished agreeably to the lonic order. All the pavilions are to have porticoes in front, and a colonnade in front of the dormitories, so that the students can go to any lecture room under cover. The buildings will be all finished agreeably to the different orders of Architecture. In addition to the foregoing, four other pavilions, with the intermediate dormitories are now going on, and it is expected, one or two more will be put up this fall, if the weather is favorable. It is much to be regretted that the funds of this institution are so slender; the subscribers, I understand, pay but little, and the donation of the state will not go far towards completing the establishment. It must therefore be protracted for some years, if aid is not granted from some source or other, and where can we look but to the legislature! It will rest entirely with the next Assembly to say, whether this important state institution, (that will not only save thousands that are carried out of the state for the education of Virginians, but in all probability will bring thousands from our sister states to the south and west,) shall be finished with expedition, or drag on heavily for years to come. With sufficient funds the buildings could all be completed the next year."—Enquirer.

### LITERARY.

A work on the Black Sea has lately appeared. It is from the pen of Gen. II. A. S. Dearborn, the Collector of our Customs. It opens to view an immense country, abounding in resources, both on the borders of the Black Sea, and on those of the Danube, the Don, and the other great rivers which empty into it, and into the sea of Azoff. It gives a great deal of other information on the important and lucrative trade of the Levant.

Its preface is characteristic. It shows at once the author to be a man of genius. The whole work bespeaks aloud his great research and patient investigation.

The scene explored is peculiarly interesting, from its having been, in ancient times, the grand emporium for the rich products of the East Indies. It is now of less consequence than it was before the discovery of the passage round the Cape of Good Hope, But still the trade of the Black Sea and of the Levant is deemed, by the principal powers in Europe, a trade of very great importance. Strange to tell, among the various commercial nations of the world, America alone totally neglects it. Our merchants have not followed it, because, according to the custom of the court of Constantiaople, they would be obliged to trade under the protection of some ambassador there; and their pride as Americans naturally leads them to disdain any other protection than that of their own

It appears to me, on the whole, that statesmen as well as merchants, can do justice to the work only by an attentive perusal.

The question which this valuable memoir naturally presented to my mind, at once, was this; How long shall our proud flag be expelled from the Black Sea, or be compelled to bow for protection to some foreign ambassador?

[Degrand's Report.

### 

Mr. Skinner,—A poor woman called on me yesterday, soliciting some help. She informed me, that since the death of her husband, four years ago, herself, her son, and three little daughters, had earned a comfortable living in one of our cotton factories; but that from the badness of the times, the owners of the establishment could neither sell the goods on hand, nor procure money to purchase more cotton; and were of course obliged to discharge almost the whole of their people; that she and her family were very willing to work at any thing they could do, but could find none, and were reduced to absolute want.

This is a far more melancholy tale, than the death of the merino sheep. What! people reduced to absolute distress, in this country, for want of employment, where so much is to be done, where the constant labour of millions is wanted for ages, to bring it to national perfection !- Out of employment in cotton factories, the raw material of which is produced in such abundance at home, and now exported for a trifle to other countries, where thousands are kept in employment, by manufacturing it for our use. What would we think of the man, who kept the members of his own family idle and starring, while he employed others, and paid them for doing the work of his own? Would he not be reckoned insane? And where lies the difference between a nation and a family, acting the same part? Or is that to be styled wisdom in a nation, which would be pronounced madness in a single family?

From the quantity of manufactured articles imported yearly into the United States, it would be easy to show, that more than one hundred thousand persons are daily employed in foreign countries, working for us; and that too, on raw materials, which our own does, or can yield as plentifully, and of as good quality, as any other. Yet, we are daily called upon to extend relief to

persons of both sexss, who are as able and willing to work for their living, as those of any other nation. Charity should begin at home; and the of charity, so abundantly, to foreign nation, to the vine had yielded to the the neglect to the ruin of the industrious poor among ourselves? Are our widows and orphans to want employment and food, or he fed by the cold hand of charity, in order that thousands, on the other side of the Atlantic, may have work, food, and raiment? Are our most ingenious fellow citizens, to languish for want of employment, that the foreign artificers in iron and steel ware, in porceain and in grass, may be encouraged and A! the last galhering but one, the vine looked as rewarded? Is it with this view, that even the flourishing as at any previous period, but was soon ladelphia. rainrods, for the small arms of the United States, after attacked by insects, by which in a few days after that it be earnestly recommended to the citiare imported from abroad? Will any say, or dare it was destroyed. The squashes gathered, aver- "Pittsburgh, and all other places, where industry is paralto say, that our genius for the mechanics and the aged 48 weight for every hundred in number, which "ized, to appoint committees to make inquiry into the rise, useful arts, is not equal to that of any other nation was nearly half a pound each. Those conver- "progress, and decline of their manufactures, respectiveon the globe? Or that we have not the mate-sant with such subjects, can determine, whether or "ly, in order to lay the result before Congress at their rials for those articles, and of many others, in not the vine, in this inatance, was more than ordias great abundance and perfection, as any of those narily prolific. have, from whom we receive them? Finally, I In the same garden, a water-melon vine, from a try, and the large establishments they have erect-pounds. ed, to be sacrificed for the accommodation of rich and poor in other countries? If so, our hopes, and the hopes of our poor are vain, and our disease incurable. COGITATIVUS.

# Occasional Extracts.

To the Editor of the American Farmer.

Pleurisy, in your valuable paper, I am under the im-gentleman of this city, on Wednesday morning hopeless langour and relaxation, if it be not entirely pression, that the benefit will be very extensive, and last. It measures eleven inches round, and weighs broken. it being an Indian cure, I am convinced that it ten ounces

#### A CURE FOR THE PLEURISY.

and after washing and beating it, hoil it with two this city. It is understood to be the intention of are wont to do most things, by the exercise of plain gallons of hydrant, rain, or river water, until it its present owner, (to whom it was politely given common sense; it does not seem to require much speculation or philosophical research to arrive at the concloth, and sweeten it with molasses. Take a pint in spirits, and deposit it in the Museum, for the which the following course and state of things occurs. of it every ten minutes, as warm as it can be inspection of the curious. When the unfavoura-for example 2 pounds of merino washed wool will drank. The patient must be well covered in bed, bleness of the season, to the growth of the arti-

will cure the pleurisy in ten hours or less.

 The nettle and thistle are different things. Editor supposes the writer means the nettle, well known in the country for the burning sensation produced by it, notwithstending its inoffensive appearance.

#### REMARKABLE PRODUCE.

Herkimer, New-York.

From one seed, 50 pumpkins Length of vine and branches, 730 feet. Weight of pumpkins. 4344 lbs. Weight of vine, 136 do. Weight of pumpkins and vine, 5701 do.

PROLIFIC VINE.

Augusta, Georgia, September 25.

We published in a former paper, an account of most important species of it is, to find employment the number of squashes gathered from a vine, the for all who are able to work. Where then the produce of a single seed in the garden of Mr. policy, where the humanity, of extending this kind Searle of this place. It may be recollected that

31st July	-	775 squashe
Gathered August 9,	-	325
16,	-	250
23,	-	375
30,	-	350
September 15,	-	1 10
	Total.	2215

would ask, are the extensive capitals, embarked single seed, produced 380 weight water-melons : ufacturers of baltimore, will be answered. As far back in manufactures, by the real friends of our coun-the melons separately weighed from 12 to 34 1-2 as May last, we expressly solicited information as to Geo. Adv.

Penn- Yan, September 14.

Mr. Abraham Townsend, who resides near this village, last week sent us a corn stalk, which he states to be but 92 days from the seed, and which measured in length, thirteen feet and four inches, others but heaps of mouldering ruins. and eight feet from the bottom of the stock to an

Richmond Va Sept. 13.

If you should publish the following Cure for the seen, was purchased at the Market-house, by a in naturnore, we lear, more especially, the spring of enterprize has fallen into a state of long and almost This one was selected from a numis not generally known, therefore I submit to you the ber of others, very little inferior to it in size.

It would upon the Meadow Bridges plantation of national industry, should be encouraged by positive statutory provisions in its favour; is one whereof we It grew upon the Meadow Bridges plantation, have not the presumption to pretend to be masters-it formerly the property of Mr Lewis Truelleart, is one which has employed, and confounded, older and Take three or four pounds of the nettle root,\* now of Jervas Storrs, Esq. within six miles of much wiser heads than ours. But viewing it as we or the effect might be attended with the most sectle, is considered, it is but reasonable to infer, that wool are brought here by an agent of John Bull, from processors are considered in the strained farmer Owings for 1 50, and shipped to England. England to the circumstances it would have attained farmer Owings for 1 50, and shipped to England. under other circumstances, it would have attained glish people go to work on it, and presently John Bull The above directions, if strictly attended to, to a much larger size. But it does not require sends this wool back again in the shape of a yard of the assistance of conjecture, to add to the novelty broad cloth, and sells it to Farmer Owings and his of its size. It is certainly a very uncommon pro-The duction of the kind.

### GRAND AQUEDUCT IN NEW-YORK.

A number of spirited gentlemen of New-York, single pumpkin seed, grown the present season, in distance from the metropolis, and found them and healthy; they therefore recommend its introduction into the city; which, they are of opinion. cheerfully pay, in consideration of the immense ceived at par for this paper. benefit, they would thereby enjoy.

#### THEFT DARMER.

DALTIMORE, FRIDAY, OCTOBER 8, 1820.

The proceedings of the S. Carolina Agricultu ral Society, commenced in this number, will be finished We return our thanks to the friend m our next. who furnished them for publication, as they will give additional interest and more permanent value to this s. volume of the American Farmer.

#### BALTIMORE MANUFACTORIES.

The Aurora of the fifth inst. contains the Report of the citizens of the city and county of Philadelphia, friendly to Imerican Mannfactures. We shall publish the whole Report, unless it shall have been through other journals so extensively circulated, as to render it unnecessary. In the mean time, we invite the attention of the manufacturers of Baltimore, to the following, one amongst other Resolutions adopted at Phi-

" next session, so as to enable that body fully to appre-" ciate the ruinous consequences of the existing policy, and to apply an adequate remedy."

We have great doubts whether this call on the manthe capital invested, and the former and present condition and prospects, of all manufacturing establishments, in this district, and a statement as to the mode and extent of encouragement, which it might be thought expedient to ask from the national legislature. Our call has never been answered, notwithstanding there is every reason to believe, that these establishments are, some of them, at the lowest ebb, and

It is indeed to be appreliended, that the public spirit of the whole country is at a very low ebb -an appalling indifference on many subjects of vital inter-The largest Peach I remember ever to have est to the nation, appears to personal the spring of in Baltimore, we fear, more especially, the spring of

> The great question-How far any particular branch neighbours for eleven dollars-and the difference between the cost of the raw material and the manufactured article, has been pocketed by those who are both by inclination and interest our worst enemies.

As to the prices of Country Produce in this market, among whom were the Mayor of the city Dr at this time we have little to communicate. Tobacco Mitchell, and Gen. Swift, have lately examined is dull The demand is principally for the finest quali-We are assured the following is the product of a the sources of the river Bronx, about 30 miles quality for sale here at present WilEAT may be quoted, Red, at \$1 10 to 1 12. White, \$1 15 to 1 18abundant in water, uncommon'y fine, transparent, RYE, 32 to 55 cts.-OATS, 45 to 50 cts -CORN, 63 '2 63 cts - Wagon flour, \$6-Whiskey, 41 cts.

The Editor repeats, that from persons not remay be effected at an expense the citizens would siding in Maryland, North Carolina notes will be re-

Subscriptions will not be received for this paper for less than 12 months.

# PRICES CURRENT AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carguity Metaca and Care	J	
ARTICLES. PER.	RETAIL PRI	t.
BEEF, Northern mess) - bbl.	15	
No 1 wholesale.	104	
No 2 )	16	
Bacon, 10. Butter, Ferkin, wholesale.	is	
Coffee, first quality,	\$3	
second do	27	
Cotton,	17 41	
Twist, No. 5, No. 6 a 10,	75	
No. 11 a 20,	53	
No. 20 a 30, -	75	
Chocolate, No. 1,	\$3	
No. 2,	25 25	
No. 3, box	20	
dipt,	18	
spermaceti, -	45 sca	ro
Cheese, American, 1b.	10 60	
Feathers, - gtl.	3 50	
	ol.2 50 ne	w S
mackarel, No. 1 a 3	6 9	
shad, trimmed, -	7 75 7	
Flour, superfine, bbl.	5 50 6	
fine, bbl. middlings,	4 50 5	
rye,	4 α 4	1
Flaxseed, rough, cask	none.	
cleaned, bush	do do	
Flax, 1b. Hides, dryed,	12	
Hogs lard.	12	
Leather, soal,	25	
Molasses, Havana, gal.	45 50	
New Orleans,	1	
sugar house, gal.	1 50	
Oil, spermaceti, - gal. PORK, mess or 1st quality, - bbl.	18 a 1	9
prime 2d do	15 a 10	
cargo Sd do ton	14 a 1.	J
Plaster, ton ground bbl.	1 75	
Rice, 1b.	6	
Spirits, Brandy, French, 4th proofgal.	ł .	2
peach, 4th proof apple, 1st proof	75	A
Gin, Holland, 1st proof	1 25	1
do. 4th proof		
do. N. England	1 50	2
Rum, Jamaica, American, 1st proof	50	~
Whiskey, 1st proof	35	
Soar, American, white, lb.	18	
do. brown, - Sugars, Havana, white	19	
browa, N. Orleans, -	11 1	2
loaf,	25	
salt, St. Ubes, bu.	20	a
Liverpool, ground,	75 1	l
Shot, all sizes, lb.	12	
TOBACCO, Virginia fat, cwt	6 50	
do. middlings, Rappahannock,	5	5
Kentucky, -	6 50	7
small twist, manufactured, 1b.	25	
pound do TEAS, Bohea,	50 63	
Souchong, 1b.	75 a	ı
Hyson Skin	75 a	
Young Hyson,	1 25 a	
WOOL, Merino, clean,	1 75	
unwashed, -	40	
crossed, clean,	65	
unwashed, •	35 37	
common country, clean, unwashed	25	
skinner's,	33	

A SUMMARY OF THE PROGRESS OF THE ARTS IN FRANCE.

Compiled for the Democratic Press, from M. Chaptal's Comparison between the Industry of Fra ce, in 1789, and 1819.

In 1789, the French imported Cotton Goods to the amount of 26 millions of francs; in 1812, one million and a half.

imported lately, promise new facilities to this ma-factures, and Ploughing Matches. In almost every 45 nufacture.

wonderfully improved of late years: and the machinery of Mr. Douglass, invited into France, by M. Chaptal has greatly contributed to the perfection of all the manufactures depending on spin-22 ning and weaving.

The establishments of the manufacture of Chemical Articles now excel the English, both in 65 quality and price.

The art of Bleaching, both with and without w3 the aid of oxymuriatic acid, has been carried to the highest perfection, not only on linen and cotton, but on the pulp of paper. In this way, cofors are not only discharged, but paper is also colored now with the most beautiful tints, at a cheap

Distillation has been brought to great perfection by the improvements of Messrs. Chaptal. 15 Argand, and Edward Adam. The first improved 13 the form of the still, by diminishing its depth in proportion to its capacity; the latter saved fuel by his mode of heating the wash, and condens ing the spirit of various strengths by a singl operation.

During the revolution, the art of making Fine gar for the table, for manufactures, and for medcine, by distilling wood and clarifying the pyroligneous acid, has been so improved as to supply great part of the consumption of this article at the est tables of Paris.

The art of chemically purifying Water, by the 50 improvement of filters, not merely in the mechasical construction, but in the chemical additions that precipitate the impurities of water have co sol sentially contributed, of late years, to health and t 40 confort.

The art of extracting the finest and most nourishing of Soups from the gelatine, contained to hones, were brought to great perfection, by M Cadet de Vaox, —, and the art of Preserving meat fruit, vegetables, and milk, perfectly good for years, by the process of M. Apput, is also a present from Philosophy to Society.

The expeditious mode of Tanning, of M. d. Seguin, is indeed only expedient upon urgent oc-50 casions; but the theory of tanning has wonderfull: 50 improved the practice of it, by applying to this art the anatomy of the skin, and the chemical changes that take place in it during the operation 100 of tanning.

In France, for some years past, Paper has been manufactured of any indefinite length.

The memoir of M. Monge, on the process of felting, has greatly improved the Hat maoufacture. The Metallurgy of France, now, in all its bran

cles, equals the English.

In Porcelain the French excel, at present, al Europe.

The Stone Engraving of M. de Lestayrie is daily improving, and promises to afford every scientific work, requiring plates, at much lower prices than formerly.

### SPEED THE PLOUGH.

During the following month, there will be exhibited throughout the New-England states, the An-The Cachemire Shawls of M. Ternaux are mual Festival of the Farmers, which consists in fully equal to those of India. The Angola goats, Cattle Shows, exhibitions of Machinery, Manucounty in Massachusetts, there are Societies esta-The manufactures of Linen and Silk have been blished for the improvement and encouragement of these ebjects: which, being liberally endowed. give a wonderful spring to enterprize, industry, and talent. The exhibition at Brighton, will take place on the 12 and 13 Oct. [See page 219] and it is expected there will be on the spot, a finer show of cattle and manufactures, and a greater display of agricultural art and ingenuity, than has ever been seen in this country.

> Much interest has been recently excited on the subject of Natrimony. n the community of Rhode Island. It is not, perhaps, generally understood, that the laws recognize this as a civil institution altogether. Until the year 1733, none but civil officers were authorized to sanction marriage conracts; in that year, the authority was extended to ministers and elders of churches, as a matter of onvenience merely.—Prov. Pat.

#### UPPER MALBORO' JOCKEY CLUB RACES.

VILL commence on Tuesday, the 12th Octo-ber next on which day a purse will be run for, according to the rules of the Washington Jockey Club, 4 miles and repeat, for all ages.

On the following day, a purse will be run for, 3 niles and repeat, for all ages.

On the third day, a purse will be run for, 2 miles and repeat, for three and four years olds only.

N B. The members of the club are requested to meet at Upper Malhoro' on the evening previous

The ground is solely under the regulation of the The purses will be as respectable as usual. Upper Marlboro', Sept. 25.

### A BALL

Will he given at Upper Marlboro', on Tuesday evening the 12th inst. Tickets can be had at Mr. Kempe's bar, or by application to the Managers.

Upper Marlboro', Uct. 5.

The Autumnal Meeting of the Agricultural Society in Prince George's County, will be held at Upper Malboro' on the third Monday in this Month. Mempers and visitors are respectfully invited to attend. A. W. PREUSS, Sce'ry.

PRINTED EVERY FRIDAY AT \$4 PER ANN.

# FOR JOHN S SKINNER, EDITOR,

At the southwest corner of Market and South-streets,

BALTIMORE.

# NIERICAN FAR

# RTRAL ETOTOWY, INTERNAL IMPROVEMENTS, TESTS PRITE CUPRENT.

" O fortunates nimium sva si bona norint " Arricolas." . . . . Ving.

# BALTIMORE, FRIDAY, OCTOBER 15, 1819.

Num. 29.

## AGRICULTURE.

Vol. L

(Communicated for publication in the American Farmer.)

#### AN ADDRESS.

Delivered before the South Carolina Agricultural Society at their anniversary meeting, held in Columbia. on the 5th of December, 1518, by WILLIAM R. DAVIE. Esq. president of the society; together with the report of the curators for the preceding ; ear.

#### Montinued from No. 28-p 2191

One of the most important objects in convexion with the immediate interests of the farmer, is the raising the stock. Every man must have observed the rapid diminution, as well as depreciation, of this valuable article within the last fifteen years It is true, that the natural range is considerably abridged in some places, but the diminution is general. The all absording inflaence of the cotton culture, has principally co tributed to produce this deffect in our rural economy. It is true, that a large proportion of our plantations and labour, is appropriated to this interesting sta-le, which contributes little to the support of stock; yet, on every farm, much may be done from the very offal of our erops to promote this important object; imitating the economy of nature, by while nothing is permitted to be wasted, and every thing compelled to contribute to the support of life in some mode or other. I wish it was in my powe to state the aggregate amount of the sums drawn from this state for the necessary supplies of pork and beef, all of which might be saved by proper management, and added to the active capital of the planter. This subject assumes a more serious aspect, when it is considered, that stock furnish those means, which must form a part of your improving system. It is highly important to the agricultural interests of our country, that it should be received as a maxim in our husbandry. that every plantation can raise or otherwise supply sufficiency of manure for its own support and improvement. In Europe much is procured from the towns in aid of that produced on the farm--here we have the woods and swamps and much rich alluvial. now useless soil, along the sides of every river, creek and brook But however ab indant other resources may be, stock are every where considered as the great and indispensable means of effecting this important end and the farm or fold yard must make a part of every well planned system of improvement. Deeply im ressed, therefore, with its importance to our success, I take the liberty to recommend this interesting part of our duty to pour serious attention; the means used by other societies have been cattle shows and premiums; permit me to add the dissemination of infor aution, and the animating example of the members of this society.

The cultivation of the grasses naturally connects itself with this part of our general plan of improvement, and I am happy to be authorized to say, from the experience of several years, that almost all the core aled glasses of foreign extraction succeed well in the middle and upper ranges of the state, where, fortinately, all the necessary varieties of soil and situation may be found congenial to their culture. For the purpose of being fed green to horses or mattle. I have no knowledge of any grass superiour to the Lucerne; under proper cultivation, it may be cut eight or nine times in common seasons, commencing in March and continuing till the hard frosts in the latter and of autumn. Being out before it is in full bloom it immediately springs up from the stumps, and its uncommonly strong and deep root preserves it from the common effect of drought. Its culture is easy and simple : in France it is cultivated broad-cast.

not succeeded, but it pever fails in fac drill on any anal soil. Lucerne was among the earliest of the cultivated grasses; in Italy it was one of the fruits of R main conquest; In Upper Egypt it has been used time immemorial, not only as the food of cattle but of man.

Red cl ver grows luxuriantly in the range of country I have mentioned, on suitable soils. This grass is properly the native of a clay soil, but will su ceed almost on any, in proportion to the goodness of the land. The extraordinary success with which this grass has been cultivated in Pennsylvania, Maryland, and Virginia, for the purpose of food for stock of every kind, and above all, as an improving crop, gives it an unquestionable claim upon the attention of the planter and farmer. There is no danger of wandering in the mazes of theory on this subject; the practical results of thirty years' experience in those states furnish an infal ible guide.

Among the narrow leafed grasses, the dog's foot, as it is called with us, deserves particular attention; it appears congenial to our climate, and grows luxuriantly on any rich soil, however dry the situation may This grass mixes well with the red clover, supports it from falling when luxuriant, and cuts to advantage, at the same time while it improves the hay, and contributes to its preservation when housed or stacked. The timothy and white-top or feather grass succeed generally on wet meadows; but timothy justly valued as a hay for horses, seems peculiar to a colder climate; it grows luxuriantly, almost spon aneously, on ou mountains, while in the lower range of the state, it languishes, and is soon succeeded by the wild or native gr ses

The herds grass might be cultivated with the greatest success in the soft boggy lands in the lower parts of the state. There are few grasses more valuable for hay, while it gives strength and consistence to the surface of the most spongy hog, converting mocasses, which are not only useless in their present state, but even a dangerous nuisance in a neighbourcoad, into valuable and productive land. Drought, ne great enemy of this branch of agriculture, never effects the hords-grass when cultivated upon this. which is its particular soil. The inland swamp formerly cultivated in rice, and now generally abandoned. would form excellent meadow and grazing farms, equal to any in Europe or America, with the aid of this grass, and the native grasses of the country ; I am confident, that these lands thrown into this mode of colture might be improved ten-fold in their value; the profits of the grazier are certain and annual, and secured from those accidents of season, which frequently blast the hest founded expectations of the planter. I wish it to be understood, that I consider that of the breeder of cattle.

The white clover yields but little food, and soon becomes dangerous to horses when pastured, and cannot be connected advantageously like its relative with any system of improvement. I cannot, however, close the short view of the grasses, without recom-mending to the attention of the society the Samfoin, a grass so highly esteemed by the French farmers, that thay cannonized it under this singular appellation. The English farmers speak of it in terms of the highest approbation; it is, they say, the best hay hitherto known for horses; many farmers keep them the whole winter upon it with very little corn, and the horses remain (at an in fine condition; even post horses with advantage for three years. This is the language of the English farmers and it requires only a moments reflection to observe how extremely interesting this grass would be to the planter, subjected to

fand males employed in the culture of corn and cotton. I do not know wether any experiment has ocen made of its culture in this state; the European farmers all agree, that it is among the most profitable grasses, and far exceeding any yet propagated on poor land-it will succeed on almost any soil which is mixed with rocks, or that has a bottom of firm adhesive clay.

In most rich soils, the native grasses of our country make excellent meadow, with proper attention to eradicate the weeds and drain the boggy parts; the scythe improves the quality of the grass, and where the soil is rich or properly manured, it will yield an abundant crop. It may be observed where the meadows still remain which were made by the first settlers, the native grasses have generally succeeded to the timothy, without operating any injury to the farmer.

Thave dwelt on this subject, because an opinion had generally prevailed, that few or none of the foreign cultivated grasses would thrive in our climate, and from the imperious consideration, that this branch of agriculture must form the basis of that system of improvement, which can alone prove effectual to restore our exhausted lands, "An assured and plentiful supply of wholesome food for stock during the winter, enables them to multiply their numbers, while in their turn they contribute to the fertility of the soil. and the support and comfort of man"

It is a trite but just remark, "that every farm which is in good heart, should be kept so, and every one not in good heart should be made so." This should be held as a fundamental principle in the cleed of every land owner; the late president of the United States has observed in his learned address to the Agricultural Society of Albemarle, in illustration of this maxim, " that any system or want of system, which tends to make a rich farm poor, or does not tend to make a poor farm rich, cannot be good for the owner; the profits where there are any, will not balance the loss of intrinsic value sustained by the land; that every acre made by improved management, to produce as much as two acres, is in effect the addition of a new acre, with the great advantage of contracting the space to be cultivated and of shortening the distance of transportation;" thus the planter doubles his profita while he diminishes the expense of cultivation.

It would be a visionary project, unworthy of our experience, to rest our plans of improvement on the feeble and abstract motives of disinterested patriotism; I am well aware that self-interest is the impulse which directs the industry of every branch of the community; this active principle is one of the laws of nature, operating equally on the merchant, the nanufacturer, and the agriculturist; and in general an honest and enlightened obedience to this guide the business of the grazier as perfectly distinct from will most effectually promote the advantage of socicty It is from this unpression, that I have used my f-eble efforts to produce the conviction, that precisely as we progress in any system of agricultural improvement, we shall economise on the great objects of land. labour, and capital of every description; that the only source of our wealth a the soil, and that the preservation of its fertility is the sole guarantee of our prosperity.

There is yet another subject immediately connected with the agricultural interest of the state, although not a direct object of our association which I feel myself strongly impelled to recommend to your attention. Our produce, until it reaches the market of remain that an . in fine condition; even post horses exportation, does not change its character of interest; thrive well upon it, and next to corn no hing will it is still the planter's, and only becomes an article of keep them in such good order; it may be moved ten commerce, when it touches the hand of the merchant; yeare successively, and may be afterwards pastured the transportation to market is as intimately connected. with its value, as any process of its previous preparation; we have therefore a deep interest in the proposed improvements of internal navigation; it is not your pecuniary funds I wish tirected , his great na with the advantage of irrigation. In this mode I have such an immense exepense in the support of the horses tional object, but the united and entightened influence

of the members of this society. In governments formed upon republican principles, national enter-Prise, to be successful, requires the support of general Sentiment and feeling; the public opinion must lead, while the government only follows to organize the means of effecting the public will. The enlarged views and enlightened policy of the late legislature, reflect the highest honour on the members of that holy, and merit the warmest support of the planting interest; a late able address\* to the planters on the Wateree, and the elaborate report of the civil engineer. have demonstrated how capable this state is of improvement, how much we owe to the God of nature, and how little is wanted from the hand of man, to effect a more complete internal navigation, than can be boasted by the most favoured nations up ler similar geographic circumstances, particularly embracing the interests of that fertile range of country between the line of the long-leafed pine and the mountains, owned and cultivated by a people distinguished for their steady habits and their indefatigable industry. Commerce will soon feel the effects of these improvements, but the planting and farming interest will first hail their happy influence. The consummation of this wise and patriotic policy will animate every species of labour, bring all the energies of the nation into active operation, enhance the value of every kind of property, and insure that species of prosperity, which, while it spreads wealth by the hand of industry, invigorates the moral cuergies of a nation.

Permit me to observe, gentlemen, that as it has pleased Divine Providence to place us under circumstances, which have made our character decidedly and. probably, permanently agricultural, you have by your association constituted yourselves the guardians of the vital interests of the state, and the patrons of that art, the state and progress of which must have a power into excellent meadows. These low grounds, which ful influence on the physical, the moral and political condition of our country; you have voluntarily assumed this high responsibility, and I indulge the hope, that the public expectation will not be disappointed.

\* By Col. Blanding.

### REPORT OF THE CURATORS.

For the preceding year, ending 8th December, 1815, accompanying the Address of William R. Davie, Esq. delivered before the South Carolina Agricultural Society.

The Curators of the South Carolina Agricultural Society, in conformity with the twelfth article of the constitution, beg leave to lay before the society the following report of their proceedings.

As an apology not for having a greater body of important matter to lay before the society at this meetng, the curators hope it will be remembered, that it has only been about six months since this society was first organized. They have had the difficulties usually incident to so new an undertaking, to encounter. Their means and opportunities have been limited; and the most proper objects of their first attention, as demanded by the wants and circumstances of the country, have been to select. If, however, they have not as yet accomplished any very extensive purposes for the society, yet they trust it may be inferred, from the following report, that they have not been altogether idle, nor inattentive to the duties of their appointment, but have made such an introduction, as may so. serve as an earnest of the future utility of this society to themselves and to our country.

At a meeting of the board of managers, on the 27th of June, an interesting address by Colonel Taylor, as president of an Agricultural Society in Virginia, was obtained and examined. This enlightened practical agriculturist observes, that after fifteen or twenty years' experience, he has ascertained the importance of cultivating certain grasses, hitherto not much known or attended to in this country. After many repeated comparative experiments with sundry grasses, on an extensive scale, he recommends in the highest terms to the Virginian planters and farmers, the cultivation of the meadow-oat or Peruvian, and the red-top or herds grasses. He represents these two grasses as being in many respects preferable even to

tance of promoting and encouraging the culture of such as might be found well adapted to our chinate and soil; and deening it not improbable that some of the grasses found to succeed well in the climate and soil of Virginia, might also flourish in Carolina, passed an order, that a peck of the seeds of each of these grasses should be forthwith procured for the use of the society. The Curators accordingly requested Colonel Hampton, whose corespondence with certain gen-tlemen in Virginia, afforded him a facility in effecting the object, to endeavor to obtain these seeds for them; and they are happy to be able to state, on the information of Colonel Hampton, that the seed of the herds grass has already arrived, and the seed of the meadow-ort is soon expected. These seeds may be considered then as ready, and subject to the distribution and order of the society; and it also affords the curators satisfaction, to be able further to state, that the efforts of the society, with regard to the cultivation of these grasses, are likely to derive material additional confirmation, as to the results of the culture of them by General Hampton, who has procured a large quantity of the seeds, and is about to try the experiment on a very large scale.

The curators have made some botanical researches, and have found along the margins of the water courses, and in the swampy grounds of our pine lands, a great abundance of grasses of different species, some of which are suppose to be inferiour to few, if any, of the imported grasses. They could not but be impressed with the opinion, from the luxuriance of these native grasses in an uncultivated state, spontaneously growing on all the swampy grounds of the pine lands, that these grounds are susceptible of being converted are at present totally neglected, might probably be made in this way, as valuable as any land, which is not of the very first quality, and afford the intelligent farmer the means of rearing a considerable stock of cattle, which would render butcher's meat more plentiful, and of a better quality, than we have hitherto had in this country; and with good management, would enable him to obtain such supplies of manure as would render even his pine lands also very productive and valuable. This being admitted, the conclusion is evident, that we have now within our reach neglected treasures, which if well husbanded, would prove of the utmost value in bestowing abundance in this sterile and very extensive portion of our state; thereby increasing our political importance with the increase of our resources, and adding very greatly to the sum of human happiness. Mr N. Herbomont, whose care and attention to this subject have been commensurate with his zeal for the interest and success of the society,\* has taken pains to select from amongst these native grassses, about forty specimens of different species, and has collected a considerable quantity of seeds from about seven species. These he offers to the society for distribution and experment; but at the same time we wish it to be under stood, that we consider many other species, from which no seeds have been collected, as perhaps much better, than some of those which are collected, and seriously recommend the thorough investigation and pine woods may afford them an opportunity of doing

The seeds which have been collected, and which are offered for trial, are from the following species .-Holous Lanatus, Bromus Secalinus, Cinna Arundinaria, or Agrostis Cinna, Paspalum---, Uniola Gra cilis, Panicum Crus Galli, Paspalum, prohably a new species; Panicum Debile, and Panicum Anceps.

The Digitaria Dactylon, or Bermuda grass, has been known to flourish in a luxuriant manner, for several years past, in some of the yards of Columbia, and one of the members of this board saw it, about two years ago thriving remarkably well, on a clay soil, in the yard of captain Cunningham, of Lawrens district, in this state. From the specimens of its growth, which we have seen, and from the eagerness with which

. To exhouerate Mr Herbemont from the charge of the clover, or to any other grass with which he has egotism, it is but just to remark, that he was not the yet become acquainted. The board of managers, writer of this report.

forcibly impressed with the lamentable deficiency of horses, cattle, and sheep eat it, we have every reason good grasses in our country, and with the vast importion believe it capable of forming the most excellent high land pasturage. It is perennial, grows without any cultivation after sowing, survives and flourishes for many years, and does not suffer the ground to be taken from it by the weeds. But most especially, the curators conceive that if it should be found to flourish on the poor pine lands of this state, it might prove invaluable for the purpose of sheep pastures, and for propagating that most useful animal more extensively in this country. Under these views of the subject, an attempt has been made by one of this board, to cultivate this grass on the dry sand land of the pine woods. The excessive drought and heat of the season has prevented its full success, but we have seen enough to satisfy us, that its cultivation on such lands s practicable and worthy of more extensive trials.

The attention of the curators was attracted towards the Heligoland bean, and Talivera wheat, by a notice in the Gazette, that Robert Barclay, of London, had presented the Agricultural Society of Philadelphia, with a small sample of each of these seeds, with expectations that they might prove advantageous to this country. It is said that the merit of these beans consists in their extraordinary prolific quality, their perfect fullness of form and thinness of skin; and in their ripening much sooner than the common sorts. It is stated they will succeed on soils not stiff enough for the common beans, and have produced, generally, without extra manure, from s xty-four to eighty-four bushels per acre. The principal advantages of the Talivera wheat, are said to consist in its probable exemption from the ravages of the destructive Hessian fly, in comsequence of the peculiar texture of its straw. its being less hable to be beaten down by the winds and rains, and from its being supposed to be more productive, than any other kind of wheat in England. These representations of the merits of these two articles of culture, induced the curators to exercise the discretion given them, in endeavonring to procure a few bushels of each of them, for the use of the society; and accordingly they requested Mr. Kirk, whose correspondence with that country is calculated to insure success, to procure and import for us a few bushels of each. And we are happy to be able to state from Mr. Kirk, that they have been ordered with such precautions, as will secure their coming. As the Talivera wheat is a spring wheat, we have reason to hope, they may arrive in due time for planting the ensuing season. The society, therefore, will make such order for their distribution as it may see proper. Colonel Hampton, who has recently imported from

Italy some of the seed of the Lupinella, has politely presented the society with a peck of it. This grass has been extolled in high terms as a grass for fertilizing lands, and certainly deserves a trial in our country. These seeds are ready for distribution, according to order.

The curators have procured about half a bushel of lentils for the society, which are ready for distribu-The lentils, a species of vetch, which has not bitherto been much cultivated in this country.

The Hon. William Johnson has presented the society with a small quantity of Oneida wheat, said to be indigenous about some of our western lakes. What are its peculiar merits, the curators are not informed, but trial of these grasses to those whose vicinity to the as it is a new wheat, it will be gratifying to try it, and perhaps it may be found to possess some important advantages. It is ready for distribution.

As the curators conceive that the time is not far distant, when timber and live fences, must become objects of primary consideration with planters and farmers in many parts of this state, they have directed their attention, in a small degree, towards laying a foundation for ascertaining some species of timber, which might be worth cultivating, and the most eligible shrubs for live fencing. From a small experi-ment which has been actually made, they have ascertained that the common locust (Robinia Pscudo Acacia) will thrive exceedingly well on our poorest sand hills, although it is never found in this state, except on river lands or the richest soils. When we consider the great value of this tree, the beauty of its foliage, the quickness of its growth, and the great durability of its timber, approaching nearer to indistructibility, than perhaps any other konwn wood; we cannot, consistently with our sense of duty, forbear recomparticularly in the vicinity of our towns, where wood ble interest, and most constantly become more and more so.

As an introduction to the inquiry for the most elito be collected some of the native haws of this country, with which gentlemen may engage in some small are ready for distribution according to order.

But the shrub which has excited the most lively interest in the minds of the board, is the mespilus pyrato agricultural improvements, who has actually tried recommend the culture of it in this state in the strongest | seeding. terms. Mr. Maxey has politely favoured two of the for the purpose of more varied experiments in the hands alone. We have learned, that these seed have acceptable been shipped to Charleston some time ago, where, it of the river, and the difficulty of obtaining freightage,

serving that Mr. Herbemont has a few plants of it

promise to succeed very well.

for fuel, posts for fences, and timber for mechanical most reasonable apprehension of failure then in our much seed as possible, I cut only one bundle of grass purposes, are already an object of very considera-climate, is from the opposite cause; there might be for horses, they are it all with great avidity. gible shrubs for live fencing, the curators have caused which we know, have been made in Carolina, we growing now very finely, and seeding. I am of opinion are sanguine in drawing the inference, that this ap-this grass will make the hest pasture we can wish for. prehension is not well founded. It may be true, that From former experience, I have reason to believe the experiments, which may tend to shed a light on this the roots may not be able to sustain the severity of our Guines-grass is perennial. It is easily managed, resubject, and enable them to ascertain their suitables winters, and therefore, may not be perennial. It may quires but one hoeing, after which, it will take care ness or unsuitableness for this purpose. These haws likewise be true, that our summers are too short to of itself." This is the only account of the culture of cantha, which is also a species of thorn. From the for affording the most abundant harvests of hay, and next most interesting experiment of which we have an description given of this shrub, by Mr. Mane, of Columbia district, in the Memoirs of the Philadelphia great importance to introduce it into our country. The Brown says that his manager, "Mr. Ogelsby, at Per-Society for Promoting Agriculture, &c. as well as from seeds may, probably, be imported from the West cyfield, near Fort Adams, planted about the eighth of a verbal account given us by Virgil Maxey, Esq. an Indies on easy terms. And if it should realize the an acre of very fertile land, with plants obtained of enlightened gentleman of Maryland, deeply devoted expectations raised by the specimens we have seen, it Mr. Munson, in the first and second week in May. will yield so abundant and rich a crop of provender, They grew without any trouble, except, that of cutting it in fencing on his own plantation; we cannot but as to amply justify the expense and labor of an annual down the first growth of weeds. On the 20th of June.

members of this board, Mr Herbemont and Doctor to introduce a few extracts of the history of this grass, as they could eat of it during the whole summer. Davis, with a considerable quantity of the berries of We are aware that these remarks, concerning it, are On the 25th of September, he wrote inc had cut it this thorn, which they offer to divide with the society, well known to many members of this society, but four times. From twenty roots he obtained at the there may be others who have not yet had an opportulifourth cutting, two hundred and fifty pounds of green hands of several, than could be made in their own nity of perusing them, to whom they may be perhaps grass, and in two weeks he would cut it again the

sugar cane in point of importance, as most of the grazing of one seed in the presence of a number of gentleman they have not yet come to hand, but we hope they farms, throughout the island, were originally created, at Mr. Robertson's hotel.—One hundred and sixtymay arrive in time for subjecting them to the proper and are still supported chiefly by means of this herbage, four stalks, from six to seven feet high, growing from process of vegetation. The description of this thorn -Hence, the plenty of horned cattle, both for the one root, weighed together thirty pounds -At Mr. by Mr. Mane, and his prospects of success with it, butcher and planter, is such, that few markets in Winn's tavern on the 10th September, a second cutting are so flattering, that we must beg the indulgence of Europe can furnish beef at a cheaper rate or of a better from one seed weighed thirty-five pounds. The numthe society, while we read to them his communication of the north side parishes are wholly owing to the of which measured ten feet eleven inches in length. We will close our remarks on the pyracantha by ob- introduction of this excellent grass, which happened Some parts of the lot in Natchez is very poor soil, and about fifty years ago, the seeds having been brought the grass on those places did not grow higher than six growing in his garden in Columbia, which, as far as can from the Coast of Guinea, as food for some birds or seven feet. But on a good soil, in a favourable seable inferred from the present period of their growth, which were presented to Mr. Ellis, chief justice of the son in this climate. I am persuaded it is a very modeisland. Fortunately the birds did not live to consume rate estimate to allow to every square yard ten pounds A very small attempt has also been made by the same the whole stock, and the remainder being thrown at a cutting, when we cut only three times in a season gentleman, at the cultivation of the Guinea-grass (Painto a fence, grew and flourished, and it was not long. This would give thirty pounds to every square yard, or rieum Altissium.) A very small quantity of the seed before the eagerness, displayed by the cattle, to reach one hundred and forty-seven thousand pounds of green were procured at a late period of the spring, and only the grass, attracted Mr. Ellis's notice, and induced grass to the acre." We may here remark, that from a two seeds came up. The season was peculiarly dry bim to collect and propagate the seeds, which now comparison between the product of one seed in Natand unfavourable, so that the experiment was not as thrive in some of the most rocky parts of the island, chez, by Doctor Brown, and the product of one seed in satisfactory as it otherwise might have been. One of bestowing verdure and fertility on lands which, other Columbia, by Mr. Herbemont, we have good encourthe plants was divided into twenty-eight parts and wise, would not be worth cultivation." This is the agement to further and extensive trials. transplanted. They took, and grew well, and were first account we can find of this grass, and if we had no it is true, produced a much larger quantity than Mr. outlive times with only an interval of two weeks be-other inducements to a trial of it than its success in Herbemont: But it must be recollected, that Doctor tween each entting. Some of the grass thus cut was the island of Jamaica, where it appears, according to Brown's grew on the fertile lands of the Mississippi, made into hay, and proved to be a most excellent fod- a further account of it in the Memoirs of the Philadel- and Mr. Herbemont's on the poor land of Columbia. der. The other plant, which had not been divided, phia society, that this grass is now cultivated on a And if the plant in Columbia was so luxuriant, what grew to seven and eight feet high, and was cut only most extensive scale, and that many fields containing may we not expect from the rich alluvial lands of once at the close of the season, and the grass of that from seven hundred to eight hundred acres, are under our water courses. When we recollect that the land cutting, weighed, green, thirty-six pounds. It cured this cultivation—we presume, we should, from this of Columbia is very elevated and thirsty, and the soil into an excellent sweet soft hav. These plants were alone, be encouraged to prosecute the cultivation of it. sandy and poor; and that the last season was the cultivated on the high sandy land of Columbia, in the laded it would appear surprising, that this grass dryest ever known; and yet that the plant cultivated drivets on the first the grant dryest ever known; and yet that the plant cultivated driest season ever known. It is true, the ground was should have been so lung and so successfully cultivat- here produced from one seed thirty-six pounds at one highly manured, and the plants were occasionally ed, so contiguous to Carolina as the island of Jamaica cutting; we certainly have solid ground of encouragewatered, but doubtless, the rich alluvial lands, near and that we should remain so ignorant of its adapta-ment for attempting it on our ricler soils. And even water courses, would be found more congenial to this tion to our soil and climates, were it not that agricul, with regard to our apprehensions, that it may not grass, and produce it in much more luxuriance. The tural improvements are always introduced with difficult prove perennial in our climate; and that it may not curators are so deeply impressed with a prospect of ty, and with still more difficulty, propagated by the in-success in the cultivation of this grass in this country, dividual efforts of any people. We find that Mr. H. we would remark, that we perceive some reasons for that they cannot dismiss the subject without adding a Laurens did actually introduce the Guinea grass into hoping that on further trials, our apprehensions may few more observations, with a view of attracting at | Carolina several years ago, and probably, because no prove to be not well founded: for you may recollect tention towards it, as, in their estimation, it is pecu-such association as this society then existed, as a that Mr. Laurens, speaking on the appearance of liarly adapted to our soil and climate. It is a trite, medium of dissemination, and as an incentive to emtransplanted roots, says, "the whole are now growing and we apprehend, a correct opinion, that the greatest ulation in prosecuting to satisfactory results any very finely and seeding." And again, he says, "from obstacle to the growth of the grasses in our climate, is hint for improvement, the cultivation of this grass has former experience I have reason to believe that the the long and intense heats of our southern sun. The made no greater advances in this country. It is satis- Guinea-grass is percunial." Besides these reasons Guinea grass is a native of the hot climate, and heat is factory, however, to find that Mr. Laurens, has given for hoping that it may prove perennial, and mature so congenial to its nature, that according to the histo- to the public an account of his experiment with it for its seeds in our climate, we are encouraged from the ry of this plant, as far as we have become acquainted one year. In the domestic Encyclopædia, we find following remarks of Doctor Brown. He says, "I under the article of Guinea grass, the following account find very little difficulty in collecting the seed. I have \* As this paper is too long for insertion here, yet of this experiment:—"Io the last spring, says Mr. labready obtained a bushel of seed in return for three highly important, we refer our readers to vol. III. p. Laurens, I procured from Jamaica three last pints of or four spoonsful which I sowed on my lot in town.

42, Appendix, of the Transactions of the Philadelphia Guinea-grass seed, which I planted in drill of one I cut off about two feet of the top with the panicle as

mending the cultivation of it on our dry sandy lands, with it, the most luxuriant and abundant growth of it sprung and soon covered the ground with grass four has always been found in the warmest climates. The feet high and upwards. Being desirous of sowing as some reason to fear that our summers are not suffi- August I took one of the grass roots and divided it ciently long to bring it to perfection .- From the his- into twenty-eight parts, which were immediately retory of this grass, however, and from the experiments planted; every part took root and the whole are

enable it to mature its seed for future propagation the Guinea-Grass in Carolina, which we can find, and Nevertheless, it is already proved that it is capable this, you perceive, is of a flattering character, and of attaining a most luxuriant growth, sufficiently so well calculated to encourage to further attempts. The he began to cut it for the use of the plough horses and Whilst we are on this subject, we would beg leave mules, and continued to supply them with as much fifth time." Doctor Brown, again says, "I did not In Bryan Edward's history of Jamaica, he says, begin to cut that which I had planted in Natchez, unis probable, they have arrived; but from the lowness that "Guinca-grass may be considered as next to the til the 16th of July. I then weighed the produce Dr. Brown. fourth of an acre of very indifferent land. The seeds soon as the seed begins to fall; and after it is dry

Agricultural Society.

comb out the seeds with a coarse comb. I hope to collect at least two bushels of seed during the autumn." And he further remarks, that Mr. Mut son, another experimentalist in this culture, informed him that "Mr. Laurens was correct, and that the roots which he examined in last spring were perfectly green, and putting forth a great number of shoots."—if, therefore, the seeds come to perfection at Natchez, and the plant is there perennial, we have reason to hope that it may altimately prove so here.

Doctor Brown, in speaking of the soil best adapted to the culture of this grass, says, that " a rich black mould and a soil somewhat moist, I think produces the most luxuriant grass, but I have had very tittle experience on this subject." He is so much encouraged from his experiments, that he goes on to sav, he hopes "before many years it will be tried in every climate in the United States, and on every variety of soil No kind of grass with which I am acquainted supports the heat of the sun so well; and this property, was it even less productive, would recommend it to the notice of the agriculturist; for from the first of July until it is killed by the autumnal frosts it will afford a constant and abundant supply of green food; and consequently enable the farmer, whatever may happen to his other meadows, to lay up a plentiful stock of hay for the winter. If the hay is cut before the grass is grown too tall, less than two days' sunshine will dry it completely. It is uncommonly fragrant, and horses prefer it to the best corn blades." He further argues in favour of its culture, that "an acre of corn will not yield more than from five han dred to one thousand pounds of day blades. Considerable labor is necessary in gathering them, they are preserved with difficulty, as we cannot choose a favourable season; and with us they are always to be carried to the stack on the backs of labourers. As the Guinea-grass, on the contract, retains its verdure for several months; we can always cut it when the weather is most promising. We can cultivate it on most plantations near the place where we wish to feed it; or it may be earted out of the enclosure where it

If the subsequent experience should confirm the principal facts which I have stated with regard to this grass, the intelligent farmer will soon perceive the advantage of cuitivating it, instead of trusting to the scanty supply of blades which he obtains from his corn-fields, with such a waste of time and human labour. A Pennsylvania farmer, who knows the advantage of timothy or clover meadow, considers it a folly to spend time in a Heating corn blades. If Guinea-grass succeeds as well with others, and in every season, as it has done this season with me and as it has done in the West Indies for more than half a century. the planters of the south will have no reason to east their northern neighbours their luxuriant clover y. tures, or their numerous ricks of timothy hay. Meadows are generally the most fortile of every farm where they exist, and their value is augmented by their contiguity to the farm houses. If Guinea grass is substituted for clover, timothy and lucerne, at least seven eights of all the grounds appropriated to these erops, will be given to the cultivator for the purpose of raising subsistence for the human species." These experiments and observations of Doctor Brown, together with the samples we ourselves have had of its growth in Columbia, have inspired the curators with sauguine expectations, that the Gumea-grass may prove an invaluable acquisition to our state, and accordingly, they have recently made an effort for procuring a bushel of the seed from Jamara : but whether they may be able to suggested in obtaining it or not, is un certain. They can perceive no impropriety, however, that the socie'v should make an order for its distribution in the event of its arriving in due time to plant The curators have seen intimations, that attempts were about to be made to miltivate this grass in Kentucky. and even in England, but they cannot but flatter them. selves that the character of Carolina holds out iducia greater encouragement, for the successful cultivation of this southern grass, than more northern latitudes. and if in those climates, they can be induced by its rich and luxuriant growth, to endeavor to cultivate it, we, in Carolina, certainly ought to feel much stronger incentives, and more sauguine expectations of suc-

Directions for the culture of this grass may be found in Doctor Martin's edition of Miller's Gardener's Dictionary, under the article Holeus Pertuses—to which we refer those who may be desirous of information on this subject.

# FROM THE NATIONAL #GIS. WORCESTER CATTLE SHOW, &c.

As this subject engrosses, at the present time, the principal part of the public attention, we shall omit our usual political speculations, under our editorial head, the present week; presuming that articles relating to the particular objects of the institution, will be more acceptable to our readers. The following observations, in relation to the all important subjects, which will arrest the public attention to-morrow, are well worthy the perusual of all who feel an interest in Agricultural, Manufacturing, and Mechanic improvements.

### From the Albany Register.

He that maketh two blades of grass grow where but one grew before, does more for the good of society, than all the political partizans from the days of Aristotle to the present time. We would not wish to underrate the other professions. The merchant, manufacturer, mechanic, &c. are all necessary; but it is principally to AGRI UITURE we must look as the great source of our national wealth, and the strength and durability of our republican institutions Commerce may fluctuate, or he wholly cut off; and the merchant who was worth thousands yesterday, may be worse than nothing to morrow. The prices of manufactures may vary, and produce poverty and distress. It is not so with the farmer. He is in a great measure independent of these circumstances. trade cannot fail him, while the earth endures and continues to yield her increase. He must, in some degree, like other classes in community, feel the pressure of the times; but not withstanding this draw-back upon his interests and pleasures, how much reason has he at the close of a fruitful sea son, when his granaries are crowded with the produce of his labour and industry, and his table loaded with plenty, to relax his cares for a season, and participate in the pleasures of a festival peculiarly

Arrangements have been made for blending utility and amusement in this rural eelebration, and everyone is busy in making ready for the joyous occasion The sound of hammers in fitting up the implements of husbandry, "give note of preparation"-unt for battle and slaughter, but for rivalry in the arts of peace. The farmer is furnishing-not his arms to meet the enemies of his country-but the ploughshare, that he may be able to bear oil the palm of victory over his friends and neighbours. He is engaged in training-not the war horse, whose neck is elothed with thunder-but his peaceful team for the rural contest Nor does the emulous and industrious house wife neglect her part, but " plies her evening care" in putting the specimens of her skill in a state of readiness for exhibition.

The splendor of military glory, the sound of the drum and bugle, the neighing and prancing of steeds, the nodding of plumes, the glitter of armour, and all the pump and ci.cumstance of war may dezzle and delight for a moment; but what dissimilar associations does the scene awaken, and how widely does n differ in character from the one which is approaching! The lauret which co-wines the hero's brow, is bathed in blood, and wet with

the tears of the widow and orphan. But the civic, wreath of the farmer is green from his own woods, enstained with gore, and unmixed with eypress. His achievements do not wring the heart with anguish, nor draw down curses upon his head; the shouts his of victory are not blended with the voice of wailing and distress; but the applauses of his fellow-citizens follow him from the field of contest to his rural shades, and he is remembered as the friend and benefactor of society.

The present number of members of the Worcester County Agricultural Society, amounts to about fire hundred ? Considering the infancy of the institution, established but fittle more than a year since,) it must surprise even the most sanguine and zeidons of its supporters, that so many have become members within so short a period. Only about one hundred more are wanting to entitle the society to receive annually from the commonwealth, the extent of its bounty six hundred dollars. We hope that enough will come forward to join it to-morrow, to make up the number necessary for this purpose. The trustees will meet at Mr Eager's early in the morning, for the admisson of those who may wish to become members. Let not this opportunity be neglected.

Members of the Worcester County Agricultural Society, who mean to partake af a dinner to be provided by Mr Eager, to morrow, (the 7th inst.) are requested to apply for tickets before 11 o'clock of that day, at the bar of his hotel.

#### RULES AND REGULATIONS

To be observed at the Cattle Show and Exhibition of Manufactures, in Worcester, on the 7th October, 1819

- 1. Marshals will be appointed to preserve order, and to carry into effect the arrangements of the day. It is expected and required of every person attending the show, to follow their direction, and those of the trustees, that regularity may be observed.
- 2. The trustees will be in session at Eager's hotel, at 3 o'clock, A M for the admission of members, and the transaction of all necessary business. The society will move in procession precisely at 11 o'clock, to the South Meeting house, where prayers will be effered, and an address delivered. The names of the gentlemen appointed judges and other arrangements, will then be announced.
- 3. All stock offered for premiums must be put in the pens, designated by the marshals, before 9 o'clock, A. M. and remain subject to their direction. And an entry of the same, stating the age and description of the animal exhibited, the name of the owner, &c. must be made in the book of the assistant secretary.
- 4. Gentlemen having animals of a superior size or quality, which it may not be intended to offer for premiums, are requested to add to the interest of the scene, by exhibiting them in pens which will be allotted for that purpose; and, by entering them in the secretary's book, they will be placed under the care of the marshals, and subject to the same regulations as other animals.
  - 5. Animals must not be removed from the pens

in which they are first placed, without the permission of a marshal.

- 6. The avenue between the ranges of pens, is intended exclusively for the trustees, judges, and members of the society. It is therefore expected, that no others will enter the same but by the permission of a marshal
- 7. All articles offered under the heads of Domestic and Household Manufactures, must be exbibited in a building, which will be provided for the purpose, before 9 o'clock, A. M. A person will attend to arrange them according to their entry in the secretary's book, and will receive the certificates that the articles were manufactured in the county of Worcester.
- 8. Original and improved machines for facili-Lating Agricultural Labour, must be placed before Ho'clock, A. M. in or near the building assigned for Specimens of Mannfactures, and will be under the direction of a person appointed by the trustees to receive them. The necessary explanations respecting them, and all communications relating to Agricultural Improvements, will be received at Eager's hoter, by the judges appointed to consider and decide upon them.
- 9. Each committee will make and publish such other rules and regulations, as they may find necessary in the discharge of the trust assigned to them; and all persons concerned will conform thereto.

10. The premiums will be awarded in the Meeting house, at 5 o'clock, A. M.

A Public Dinner will be provided for the society, and all other gentlemen who may be disposed to honor the occasion with their prseence, at Eager's hotel. Tickets may be obtained of Mr. Eager, at his bar.

DANIEL WALDO, TH: OPS. WHEELER, NATHL. P. DENNY, LEVI LINCOLN, EDWARD D. BANGS. ] 🗟 🥞

Worcester, Sept. 14, 1819.

We copy the above to let our Maryland readers see the style and solemn ceremony with which these things are conducted in the older states. We hope it will not be long before the same interest is manifested in behalf of the plough throughout our country.

For the creation of as much more wealth and abundance as they now possess, the soher, hardy, and indus trious people of Connecticut and Massachusetts would not require any better means, than the present waste uncultivated land of Maryland and Virginia .- Ed. PROGRAMME TO THE

# KITCHEN GARDEN, FOR OCTOBER.

(From the Am . an Practical Gardener.) Parsnips.

Some parsnip seed may now be sown, the first week in the month, and if the remaining part of the fall should prove mild and favourable, they will succeed; hut there is more dependance to be placed on those sown in August.

Lettuces.

In the first week of this month, transplant the let-tuces from the late August and early September sowings, from their seed beds, into others of light rich earth, in a warm exposure, and of such dimensions, as to be covered with frames, on the approach of frost. Plant th m in rows six inches distant every way, so that every other plant may be taken up for use, leaving the others sufficient room to head.

Lettuces designed to remain in the place where they are sown till spring, must be thinned, and kept free

from weeds.

In the heginning of this month, sow some of the brown Dutch, hardy cabbage lettuce, Hammersmith

, hardy green, and green cos lettuce, in a frame, to bej kept where sown, under the protection of glasses, &c. in order to afford a supply for forcing or planting out in the early spring months

#### Cabbage Plants.

The young cabbage plants produced from the seeds sowe last month and intended for early summer cabhages, should be planted into the beds, in which they are other of the cabbage tribe. to remain during the winter.

Prepare a bed for them, the width of your garden frame, in a warm well sheltered place, where the sun has the greatest power, yet be careful never to admit the direct sun-shine on the plants, when in a f ozen state, as this would infallibly destroy them; but when the plants are at these times secured from the direct ground. rays of the sun, and the earth gradually thawed, its reflected heat revives them.

The plants should be set in this bed up to their leaves, three or four inches apart. When thus transplanted they will survive the winter much better, than if left in the seed beds. Select good plants from the seed beds, and when planted, give them a gentle watering, though not too hastily.

Put on the frames immediately, and continue the taken fresh root, observing to shade them from the midday sun with mats. But when they begin to grow, the lights are to be taken entirely away, and the plants exposed to the full air, except in very cold nights, or heavy cold rains, until the setting in of severe frosts, as it is of importance that they should be hardy on have a similar dressing. The beds of plants, which the commencement of cold weather.

When you have not the convenience of glass, the plants may be protected in winter by boards and mats.

In mild warm weather, when the sun is not powerful, give them the full air oceasionally, and the oftener this can be done, provided they can be covered up again in due time, the better.

Plants that are in frames, and either the ground or plants frozen, must not be exposed to a warm sun, until they gradually become thawed, as this would inevitably destroy them; with these precautions, such as are not frozen, will be improved by exposing them occasionally to as much sun and air, as will be prudent, till planted out finally in March, &c.

By pursuing this method, you will have much earlier and larger heads, than can be expected from plants sown in the early spring months.

#### Cauliflowers.

As cauliflower plants are more tender than cab hages, they will require the protection of glasses, and a good substantial covering, to defend them from the severe frosts, in the middle states. As they advance in growth, it swill be proper to strew between them some dry tan, saw dust, or chaff, so as to cover the stems up to the leaves; this will afford great protection to those parts, which are most liable to be injured by frosts, &c.

backward, prick them into a slight hot-bed to promote their growth; in this case, be particularly attentive to heavy rains, especially when the nights are cold, as they would turn black, and be entirely destroyed.

In the middle states, when the winters are mild, with due eare, they will survive, if carefully protected, in garden frames, covered with boards and mats.

The late spring sown cauliflowers will now begin to looked over, two or three times a week, when the inner leaves should be broke down upon the flowers, which will protect them from sun, frost, and wet, either of which would change their colour, and injure

#### Winter Spinach.

hest plants at the distance of three, four, or five inches asunder Some of that sown in August, will now be fit for the table, and if the plants were left too thick, let allevs, and rake it neetly. them be thinned out regularly, by pulling some up by In March, the leaves will appear above ground, after roots, as they are wanted; but if the plants were turned before, gather only the outside leaves, and the others will grow larger.

In March, the leaves will appear above ground, after which, they are to be kept perfectly free from thinned before, gather only the outside leaves, and towards the latter end of May, will have others will grow larger.

As spinach will rot off wherever the weeds spread over it, it is necessary to keep it carefully wed.

Hocing, &c. Cabbages, Brocoli, &c.

Early in this month, hoe and earth up the late planted crops of cabbages, savoys, brocoli, and borecole, in order to forward their growth, as much as possible before winter; likewise the late cauliflowers, and every

Winter Dressing of Asparagus Beds.

Towards the end of this month, if the stalks of the asparagus turn yellow, which is a sign of their having finished their growth for the season, cut them down close to the earth, clear the beds and alleys carefully from weeds, and carry them and the stalks from off the

Asparagus beds should at this eason, annually, have a dressing of manure, the dung of old hot-beds, or well rotted manure will answer; let it be laid equally over the beds, one or two inches thick; then stretch a line, and with the spade mark out the alleys, from about eighteen inches or two feet wide, agreeably to their original dimensions; dig the alleys one spade deep, spread the earth evenly over the heds, and give them a moderate rounding. In the middle and east, ern states, it would be well to fill up the alleys with glasses only for four or five days, 'til the plants have old litter, well trampled down, which will prevent the frost from entering that way to the roots.

In the southern states, a row of early cabbage plants

may be set in the alleys.

The sceding asparagus, which was planted last spring, and intended to remain where planted, should were sown to be removed, should be cleared from weeds, and then spread an inch or two of dry rotten dung over it, to defend the crowns of the plants from

Asparagus should not be attempted to be forced sooner than November, as before that period, the roots will not be completely matured; however, about the middle, or latter end of this month, prepare the hot-beds for it.

Cellery and Cardoons.

In dry weather continue to earth up cellery and cardowns to blanch them.

#### Aromatic and Medicinal Herbs.

Cut down all decayed flower stems, and shoots of the various kinds of aromatic, pot, and medicinal herbs, close to the plants; clear the beds very well from weeds and litter, and earry the whole off the ground.

#### Endive.

Continue every week to tie up some full grown endive for blanching, tying no more at a time, than in proportion to the demand or consumption.

Planting large Onions to raise Seed the succeeding Summer.

From the middle to the latter end of October, is the most suitable time for planting out these bulbs, If, in consequence of an unfavorable season, or not as they will have time to establish roots, which will sowing the seed in due time, the plants are weakly or protect them during the winter's frost. They will produce seed more plentifully, and be less subject to blight, if planted out now, than it left till spring; but give them plenty of air. Protect these plants from when it cannot be done at this time, put them in the ground, as early as it can be prepared in February.

Choose a piece of good, rich. light ground, which dig a full spade deep, breaking it fine, as you proceed; select a number of the large-t and best shaped onions, of the kinds you would wish, observing to plant each kind at a considerable distance from other show their heads, therefore they must be diligently kinds; lay this ground out in beds about three and an half feet wide, with a fourteen iach alley between each bed; then strain a line about six inches from the side f the bed, and with a spade make a drill about five inches deep, the length of the bed, in which lay the onions carefully on their bottoms, about nine inches from each other; then cover the bulbs about four inches above their crowns, remove the line a foot fur-Weed and thin your late crops of spinach : leave the ther on the bed, plant a second row as before, and so continue till the whole is completed; then with the spade, cast a slight dressing over the beds, from the

stake, to which cords or strips of boards may be fas the bowels, in a considerable degree, medical aid will stake, to which cords or strips of obsides may be tast avail but hitle; therefore we should be particularly for even at this time, Spain, the finest country in below their heads, to support them from being broken attentive to those symptoms, which indicate its apdown by the wind and rain, as the heads become very proach and its commencement. In this, as in all other heavy, as they fill and advance to maturity, if each cases of internal inflammation, bleeding is the first stock is secured by eross pieces, &c. it will prove be-remedy, and it must not be done sparingly. If the neficial.

heads are then to he cut off, and spread thinly upon are to be well rubbed with the mustard embrocation. heads are then to be cut on, and spread inimy upon are to be wen rubbed with the mastard embrodations, supplied the place of better policy, and tended to coarse cloths, in the sun, till quite dry; shelter them (See Mustard.) The legs also may be stimulated by the counteract the baneful effects of bad government, at night, and in wet weather; then beat or rub out the same means. If this treatment fails of giving rehief, and in wet weather; then beat or rub out the same means. If this treatment fails of giving rehief, and it clean, expose it to the sun for a day or two and the pulse becomes quicker and difficult to be felt seed, fan it clean, expose it to the sun for a day or two and the pulse becomes quicker and difficult to be felt seed, fan it clean, expose it to the sun for a day or two then put it in bags, and label it.

#### Jerusalem Artichokes, Carrots, Beets, &c.

end of the month, begin to take up the roots of full food, such as bran mashes, until he is perfectly regrown carrots, heets, parsnips, turnips, &c. which are covered. A frequent cause of indammation of the preserved.

#### General Remarks

spring use.

mix equal quantities of carth, loam, and dung, lay this ounce of tincture of opium may be given twice or in a heap, and turn it over frequently, mixing it well three times in the twenty four hours. Inflammation every time, leave it exposed to the sun, weather, and of the bowels is sometimes attended with costiveness, frost. This manure will be necessary for the early plants next spring; but prior to using it for several the dung being voided in small hard knobs, generally weeks, it should be preserved under cover, and carefully thawed.

#### Southern States.

In Georgia, South Carolina, and all parts south of the thirty fifth degree of latitude, you may now sow the seeds of carrot, parsnip, beet, onions, parsley, cresses, spinach, and several other kinds of hardy garden vegetables.

Plant out from the seed beds, cabbage and cauliflower plants.

Sow peas, and plant early Mazagan and Windsor

beans, with every other variety of the Vicia Faba.

In North Carolina, Tennessee, and the southern parts of Kentucky, plant the varieties of the Vicia Faba, sow peas, carrot, onion, parsnip, parsley, and other hardy seeds. Plant out cabbages and cauliflower plants; but the cauliflowers, if the winter is severe, will require the protection of hand glasses, oiled paper caps, of frames, and the like.

# Extracts from a Compendious Dictionary of the Veterinary Art.

[Continued from No. 28-p. 219.]

liable to disease, the most serious of which is inflam- she became the granary of their empire. believe, that indigestion from improper feeding, tlatu silk, of which for centuries she had been the empo- has a sieve bottom, the openings of which are also

animal is costive, glysters and a dose of castor oil are When the seed is ripe, which may be perceived by proper; but if the bowels are loose, arrow-root or the capsules opening, and the seed turning black, the wheat flour gruel should be given. The belly and sides or numbered, there will be no chance of the animal's recovery; but if he becomes easier, and the pulse slower and more distinctly to be felt, a favourable horse's bowels is immoderate purgation; it has been ascertained, that five drachins of good aloes are, in ge-You should now give a general hoeing and weeding neral, a sufficient purging dose for a saddle horse; to all the crops, and carry the weeds immediately out need we wonder then, that double this quantity, which of the garden, lest they shed their seeds, and lay the is often given, should sometimes produce a violent foundation of much trouble. Clean all vacant ground, and dangerous effect? In such cases it is not advised from weeds and decayed stalks of all vegetables. ble to attempt to suppress the excessive evacuation by Dung and dig the ground, that has not a crop on means of opium or cordials: a safer and more effect together with the extraordinary demand for the it burying the dung, as the ground may be thrown up in-tual method is to drench the animal frequently, if he produce of our soil, served to make up the balance to ridges, that the winter frost may meliorate it for refuse to drink it, with gruel made of arrow-root starch, or wheat flour; he may be allowed to drink Prepare compost, in sufficient quantity, as follows: also a decoction of rice; should this fail, about, half an both in horses and other animals; this is known by blood: here, the first object is to procure an evacu gates of commerce thrown of en, than all their ation of the confined excrement by means of oily laxatives and glysters (see Laxatives;) and as the dis case is most commonly produced by what is termed a Chill, that is, suddenly suppressed perspiration, and is accompanied by fever, other remedies are necessary See Chill, Melten Grease , and Dyssente y.

Bowll-Galler. A horse is said to be bowel galled when the girth frets and inflames the skin between the elbow of the fore leg and the ribs. The part should materials for the produce of other nations' indusbe washed frequently with a solution of acetate of try -Generous nations! You are willing to ruin lead (sugar of lead) in water, about one conce to two yourselves, in order to encourage the industry of quarts of water; and the proper application of a crup- uthers. per will serve to prevent its recurrence.

[ To be continued.]

# FOR THE AMERICAN FARMLE. DOMSTIC INDUSTRY .... No. IV.

Mr. Shinner,-Spain, when invaded by the Romans, appears from history to have been considerably, advanced, before all the other nations of Europe, in agriculture and the other useful arts. Bowers. The bowels of horses and cattle are very The Romans were astonished at her fertility, and ment of the plan, I offer you the following notice of other quadrupeds, and from the rapid progress it gene- maintained her superiority, from that time till the other quaurineeds, and from the rapid progress it generally makes, the most prompt and efficacious treatment latter end of the lifteenth century, when prompted cone, having a case of sheet iron which is performs highly necessary. The most conspicuous symptom by bigotry, she expelled the Moors, the most variated all over; the holes being very close together of this disease, is the excessive pain the animal seems quable, because the most learned, ingenious, and and about half the size of a grain of wheat. On to labour under, which causes him to be very restless, industrious of her subjects. From that period to the surface of the inner cone, stiff bristles are frequently lying down and suddenly rising again. he looks round to his flanks, and endeavours to strike his the present, she has been descending in the scale closely and firmly set which come in contact with belly with his hind feet; his cars and legs are cold, of empire, at least if compared with surrounding this perforated case. The machine acts perpenand the violence of the pain often occasions profuse nations. Her bad policy prostrated those manudicularly, its motion being somewhat similar to perspiration. A quick pulse, and redness of the inner surface of the eye-lid, should be considered as characteristic marks of this complaint, when accompanying the above symptoms. It is necessary to give a particular to the profuse of the profuse of the profuse of the profuse of the inner state of the profuse of the manudicularly, its motion being somewhat similar to perspiration. A quick pulse, and redness of the inner state of the profuse of the inner state of the profuse of the inner state of the profuse of the inner state of the profuse of the profuse of the profuse of the profuse of the profuse of the profuse of the profuse of the profuse of the profuse of the inner state of the inner state of the inner state of the profuse of the inner state of the profuse of the inner state of the inner state of the inner state of the profuse of the inner state of the profuse of the inner state of the profuse of the inner state of the inner state of the profuse of the inner state of the profuse of the inner state of the profuse of the inner state of the profuse of the inner state of the profuse of the inner state of the profuse of the inner state of the profuse of the inner state of the inner state of the inner state of the inner state of the i lar account of this disorder, because bowel complaints, al wealth, was sent abroad, and there exchanged these holes every thing smaller than the grain is that is, what is commonly named colic, gripes, fret, for manufactured elothing. Her manufactures of worked out The grain descends into a shoe which &c frequently happen to horses: and I am inclined to sill, of which for continues the half have the support the grain descends into a shoe which are also

vided with a sufficient number of stakes, about four lency from cold water unseasonably given, and other rium, rapidly declined; and even her iron and feet long, to drive into the ground, close to the rows errors, are generally the causes of inflammation of steel ware, the best in the world, sunk into medioof onions, at the distance of eight feet from stake to the bowels. When inflammation has taken place in critic. Nor did has a sunk into mediocrity. Nor did her agriculture share a better fate; Europe by nature, eapable of supporting a population of thirty millions, has, with only ten millions, to trust to her neighbours for two thirds of her sustenance. So long, however, as the wealth of South America was wafted to her ports, and distributed through her provinces, it in some measure supplied the place of better policy, and tended to as she had plenty of gold and silver to give in exchange, her neighbours had no objection to supply termination may be expected: it will be necessary, her with every necessary and luxury of life. But Take up the roots, as you do potatoes, and secure termination may be expected: it will be necessary, her with every necessary and luxury of life. But them in like manner from frost; also, about the latter however, to allow only a moderate quantity of soft Spain's golden age is nearly past, it must soon terminate for ever. Then, like other spendthrifts, she will be forsaken; and must either work or starve.

Let us now come home and recollect, that for more than twenty years of the late European wars. the greater part of the commercial profits of the world was conveyed into our ports. These profits, together with the extraordinary demand for the of trade, which, under other circumstances, would have been against us; and answered for that time, a similar purpose, to that which South American gold and silver effected for a much longer period in Spain. During our embargoes, non-intercourse, and late war, the United States were growing rich covered with slimy matter, sometimes mixed with against their will; but no sooner were the floodwealth rushed out in search of more; but has not yet returned — Folly attempted to supply its place with paper bubbles; these have bursted, and left a wreck behind. Such have been the consequences to Spain and the United States, for neglecting their own manufactures, and bartering their raw COGITATIVUS.

# Occasional Extracts.

MR. SKINNER,-Believing it would promote the more general diffusion of the arts, were notices of patented improvements occasionally published in some extensive circulating paper, I shall, if I meet your approbation, now and then forward you concise descriptions of new and valuable inventions, particularly of such as are connected with agriculture; and, as the commence-TISDALE'S GRAIN CLEANING MACHINE.

The body of this machine is the frustrum of a

smaller than the grain. Now to prevent larger have seen it practised, a method commonly used for you would benefit the community. He makes the the size of the grain.

It is worked by a crank, and the hopper is kept machine will separate the wild onion seed from wheat Its construction is simple and cheap, and particularly designed, although it can be adapted to every species of grain.

Your's respectfully, MECHANICUS.

Washington City, Sept. 1819.

We understand the inventor, Mr. Ephraim Tisdale of Herkimer, N. J. has authorised Mr. Wm. Blagrove, agent for Patent and Copy Rights, at Washington, to dispose of rights to the above described machine.—Ed.

MR. SKINNER, -I beg you will encourage your fair readers, who are under great obligations to you, keys are nearly suffocated and overcome, turn them for your endeavours to improve their husbands loose in the air; this several mornings repeated will and their husband's lands,) to attend to their effect a cure. When turned loose they are quite they may be made.

I state, from good authority, that several thou-not entirely tilled. sand turkies may be hired out in Prince George's is the smoking of the root of the Jamestown sand turkies may be hired out in Prince George's stressioning of the root of the samestown county, during the next summer, at the rate of tweed has been found to give great relief in the asthma, it may be that it would answer better than tobacco, in the case in question; we hope some of our fair correstwill be returned when their work is done, and if pondents will give it a trial. any are overworked or die from any other cause, they will be paid for at the rate of 75 cents each,

Some of your distant readers, who know nothing about tobacco, may think this a quiz. But to the improvement of an orchard, I have been I assure you, these wages were actually offered induced to direct my enquiries to the best made of the last summer. Now it will certainly be desi-fermenting and managing barreled cider, and have rable to encourage the breeding of this useful noticed the process directed by Mr. C. Jones, as animal, and after having helped the planter in his published in your paper. It does not differ essential. crop, the turkies themselves will be almost as good by from the course pursued at Newark, which is said they take a whole lot, for from \$5 to 6 50 the hundred, chewing as the tohacco, and if they are killed to be the most approved. I have not succeeded meaning always 100 weight of net butchered meat; pretty sonn in the season, they may even have a to my satisfaction in ascertaining the best course fine relish of it. I am, Sir, yours,

between the government, and the commanding officer lieve there is no other beverage so generally cents the bushel—Irish, same price. of the enemy's squadron in the Chesapeake during the war, had frequent occasion to go on board, where he esteemed. The principal difficulty I apprehend is Tobacco-Eighty-six hogsheads of good quality, was often compelled either to "keep fast," or to dine in making it fine and brisk, the latter to be so re- fired but not yellow, rather between a brown and red, on poultry and live stock plundered from his own gulated as not to burst the bottles. The best that property of Mr Richard Snowden, sold this week for country men and friends. He recollects that, dining I ever met with was some years ago, at the Indian S875 and 1075; 8 hhds. made by Walter Brook Esq. with Admiral Warren the day that a large detach with Admiral Warren the day that a large detachment advanced upon St. Michaels, in September, he was invited to partake of some "turkey poults and er) informed me that it was bottled by a Mr. Whiskey from the waggons 41 cents—Flour, S5 75—oysters—It was the first time he had heard the term, Itillen, about ten miles from that place. and never having seen turkics eaten at that age, knew contents of tobacco worms. He declined the invitation, putting in each bottle two or three raisins, or a small and dinner being removed, he took occasion to explain quantity of honey—but a great many bottles were to them, as our correspondent has done, heir great bursted.] utility in devouring tobacco worms at that season, and we have some reason to hope, that this insight into the natural history and propensities of the nice "turkey poults," had the effect of saving the flocks of many good rapacity nothing was too sacred or too humble to elover seed, and publish it.

Not knowing whether it has been before mentioned

substances from entering the machine. To effect curing young chickens and turkies of what is common best American cheese I ever eat. substances from entering the machine. To enect ly and very significantly called the gapes. This desthis, the hopper at top has a sieve, shoe or basin, tructive complaint is well known to all those who the spaces of which are sufficiently large to allow know any thing about raising poultry, and appears the onion in New-England. the grain readily to pass through, but not so large somewhat to resemble the asthmi, or it may be the as to allow any substances to pass which are over whooping cough. It is for the most part attributed to their being permitted to wander forth in the dew, of the morning, at too early an age, but as we are not doctors we will not presume to assign the true cause of the agitated as in the common mill, to cause the grain disease, much less to say whether it be infectious, to pass rapidly. It is confidently believed that this contagious or otherwise-but considering what a great obstacle it is to success in raising of chickens and turkies, and how much it enhances the price of both, we are of opinion that the cause of the disorder is not I doubt not it will become eminently useful to our beneath the consideration of the learned faculty, and crops are less. extensive growers of wheat, for which it is most that even the so much and deservedly celebrated Doctor Mitchell would lay all good house wives under obligation, if he would turn his aftention to the cause of gapes, asthma, whooping cough, or whatever it may be called, in turkies and chichens; for be it known, that other domestic fowls are not subject to it.

#### CURE FOR THE GAPES IN YOUNG CHICKENS AND TURKIES.

Set fire to tobacco in a large iron pot, put the chickens or turkies in a common white oak basket, & place that on the top of the pot. Then throw a blanket or other on the top of the pot. Then throw a blanket or other tv-four hours in water, sowed it on 1500 square close covering over the whole. The tobacco smoke feet of ground, about Christmas. The ground was passes into the basket, and when the chiekens or tur feered the sooner they are cured-provided they are

Lexington, Va. Oct. 2, 1819 MR. SKINNER,--Having paid some attention of management, in preparing and bottling cider A CHEWER of you are acquainted with it, you would render an esteemed. The principal difficulty I apprehend is

not what they meant. - They were the size of dunghill any other gentleman, for information on this point, barrel - Bacon, the hog round, from 50 weight upfowls, and no doubt thoroughly impregnated with the He has himself made his bottled cider very brisk, by

Annapolis, Oct. 26, 1819.

MR. SKINNER-I wish you would obtain the house wives from the ravages of an enemy, from whose most approved mode of getting out and cleaning

in the farmer, we take this opportunity of communi-cating to our fair readers, some of whom may never (a correspondent seems to wish it for some one)

Publish an account of the method of cultivating

Hillsboro, Md. Oct. 1, 1819.

Mr. Skinner,-I will take occasion to remark to you, that the crops of corn, as well as the gardens and crops of potatoes, in these adjoining counties, so far as I have learned, are extremely short. Perhaps there will be as much corn made or a little more, than in 1816, but all other fall

District of Columbia, Oct. 12, 1819. My Dear Sir-You have requested communications respecting the Chile Wheat, brought by Judge Bland, and distributed by you. You recollect you gave me a little over half a pint. I divided it equally with my friend H — -. My share I carefully cleansed from dirt and small seeds, with which it was mixed, and after son' g it for twennaturally poor, but has been slightly manured. The wheat never had so thriving an appearance, as my other wheat although it in the end yielded much more. I yesterday measured, and sowed the product on three-quarters of an acre of groundthe quantity was exactly half a bushel (struck measure) and there pints

Should my three-quarters of an acre yield in any degree like the parcel you sent me, I shall have next year up ands of fifty bushels. I shall let you

know the result.

# THE FARMER.

BALTIMORE, FRIDAY, OCIOBER 15, 1819.

The present prices of the following articles in the Baltimore Market.

LIVE STOCK-Bullocks sell to the butchers, when when lots are picked, they sell for \$7 the cwt.

MUTTON of good size and condition will bring from \$4 to 4 50-Lambs, \$3.

BEEF-Best pieces, 10 cents, - Veal 121 cents - Mut-Note. The Editor of the American Farmer, being essential and acceptable service to the public by ton, 7 cents - Chickens, 50 to 522 and 75 cents per the agent through whom all communications passed making it known, as when well prepared, I be-pair, according to size-Ducks, 37½ to 50 cents per

[The Editor will be much obliged to Mr. Hillen or 63 cts.—Rye, 52 to 55 cts.—Herrings, No. 1. S2 25 per wards, 16 cents per pound .- BEEF, Boston mess S17 No 1, \$15, No. 2, 13 50.-Pork, mess or 1st. qualty S18 to 20, prime or 2d quality, S16, to 17, cargo or 3d. quality, \$14 to 15.

### EDITORIAL NOTICES REPEATED.

Subscriptions to this paper not received for a less term than 12 months. The four dollars subscription money to be paid in advance.

Complete files, beginning with the first number, If you could get Samuel Sproston, of Cecil, dated 2d vpril last, may still be had. An index will be published to each volume at the end of the year.

Current notes of the Banks of South Carolina, North Carolina, and Georgia will be still received at par.

# Palges Current AT BALTIMORE:

C.11. Ravised and Corrected every Thursday.

Carefully Revised and Corrected ever	y Thu	rsday.
	RETAIL	PRICES
BEEF, Northern mess wholesale.	15 123	
No 1 Sunotesate.	10]	
Bacon, 1b.	16 18	
Butter, Ferkin, wholesale. Coffee, first quality,	33	
second do.	27 17	28
Cotton, Twist, No. 5,	41	45
No. 6 a 10,	75 <b>5</b> 3	46
No. 11 a 20, - No. 20 a 30, -	75	
Chocolate, No. 1,	<b>3</b> 3	
No. 2, No. 3,	25	
Candles, mould, box	20 18	22 19
dipt, spermaceti,	45	scarce
Cheese, American, Ib.	10 60	15 65
Feathers, Fish, cod, dry qtl.	3 50	00
herrings, Susquehannah, bbi.	ol.⊴ 50¢ 6	new 3
mackarel, No. 1 a 3 - shad, trimmed, -	7 75	7 87
Flour, superfine,	5 50 5	6 5 50
fine, DDI.	4 50	5
rye,	4 a none.	4 25
cleaned, bush	do	
Flax, lb.	do 12	15
Hides, dryed, Hogs lard,	12	13
Leather, soal, - gal.	25 45	30 50
New Orleans,	50	60
sugar house, Oil, spermaceti, gal.	1 1 50	
PORK, mess or 1st quality, - bbl.	18 a	19
prime 2d do cargo 3d do	15 a	16 15
Plaster, ton	5 1 75	
ground bbl. Rice, lb.	6	
SPIRITS, Brandy, French, 4th proofgal.	2 1 25	2 50 1 50
peach, 4th proof apple, 1st proof	75	]
Gin, Holland, 1st proof	1 25	1 50
do. 411 proof do. N. England	50	
Rum, Jamaica, American, 1st proof	1 50	1
Whiskey, 1st proof	35	40
Soar, American, white, lb.	18	
Sugars, Havana, white,	11	
brown, N. Orleans,	25	
Iump, lb.	20	-
Liverpool, ground,	75	1
Shot, all sizes, 1b.	7 12	
TOBACCO, Virginia fat, cwi.	6 50	
Rappahannock,	5 6 50	5 50
Kentucky, - small twist, manufactured, lb.	25	3.
pound do	65	
TEAS, Bohea, lb.	75	a 100
Hyson Skin Young Hyson,	1 25	
Imperial,	1 75	i-
WOOL, Merino, clean, unwashed, -	80	
crossed, clean,	65	·
unwashed, - common country, clean,	35	
unwashed	23	5
skinner's,	35	1

FROM THE RICHMOND ENQUIRER.

#### THE CROPS.

We have been favored with the following com munications from various parts of the country As to the tobacco erop, we have no accounts on which we can depend. From one district of the state, we learn that it will be below the average crop.

Extract of a letter from a gentleman at Tappa hancock (on the Rappahannock river) Essen are stated to be worth S1 50 to Se the bushel. county, Va. dated 30th September, 1819.

"I have put myself to some trouble to inform myself on the subject of the present crop of corn, and from what I have collected, I am of the opinion there is about two thirds of an average crop in this neighbouhood, and perhaps the county will average something over a half."

Extract of a letter from Columbia Tenn, dated 22d August, 1819.

"Crops of every kind look remarkably well. Pork will be very plenty, and will command five dollars. It is thought corn will be bought this fall for fifty cents per barrel."

#### LARGE APPLE.

The Geneva Gazette, of Wednesday last, statethat Mr. A. B. Hall, of that village, raised an apple in his garden this season, which weighed one pound and six ounces. The same paper mentioned the week before, of an apple that weighed one pound and five ounces.

one acre of ground, one hundred and three busheland two quarts of Indian corn. The land was accurately surveyed, and the grain was measured by two persons chosen for the purpose.

#### WHEAT.

did not meet a ready sale even at that price.

#### TIMELY NOTICE.

As apples, corn, and pasture, have in a great neasure failed in New-Jersev, this season, our customers in other states will have to make Newark Cider, Burlington Ham, and English Cheese, for themselves. And as for Irish Potato's; vel who usually have so many to soate, will this year bers and visitors are respectfully invited to attend. have to look to New England for a supply Amer.

On the 15th inst. (says the Trenton Federalst.) we had a smart white frost. The country still suffers from the long drought; and much inconvenience is experienced in procuring the necessary grinding of grain for domestic use.

Albany. Oct. 1 .- Vessels are continually load. ing at our docks with outs, corn, Pot toes, plangkins, onions, and other garden vegetables, for

Ne v York, New Jersey, Philadelphia, &c. would seem that these crops have been cut off on the whole line of coast from Connecticut to Carolling, and that the articles enumerated are in deand to supply the failure. Thousands of bushels of potatoes, onions, and corn in the ear have been shipped from this place. The prices now paid, ire for onions 75 cents per bushel, potatoes 30 to 37 cents, corn 25 cents the bushel for the ears, and oats 37 cents. At Washington city, potatoes

Argus.

#### TANNING.

A mode of concentrating the tanning properties of a cord of bark, into a cask of less size than half a barrel, having been discovered some time since, it has been successfully reduced to practical use. This will essentially aid our domestic tanneries, and add a valuable commodity to our exports, probably only limited in its extent by the wants of Europe and our own industry. [Alb. Adv.

#### CURE FOR THE GOUT.

The best care for the Gout is to apply a leek poultice to the part affected. Numerous instances of its efficacy, in this painful disorder, have recentiv occurred. Its culture should be cherished as a medicine of inestimable value.

#### NAVIGATION OF THE SCHUVLKILL.

The Norristown Herald gives the information, that the works which are to render the Schoylkill navigable are in fine progress. Last week the dam built at Matson's Ford, a few miles below Silas Reed, Esq. of Plainfield, in the state of tusborough, (Norristown) was closed, which dams New Hampshire, raised the present year, from the water into the Lower lock, below the Swedes Ford, and makes a complete slack water navigation from that place to Philadelphia. The canal and locks on the western side of Schuylkill will be completed this season. Next summer we may have steam boats plying up and down the Schuylkill.

Buffalo N, Y. September 14 ture and objects suited to a paper of this sort, such as, ADVERTISEMENTS, which are in their na-Considerable quantities of Wheat of the first the sales of land, seed live stock, implements of husquality, were sold at Fredonia, Chautauge coun-bandry, new inventions, &c. &c. will be inserted once tv, during the last week, at at thirty seven a half only, at the rate of \$1 per square to be paid in adcents per bushel; and the Gazette states, that it vince. The very extensive circulation of this paper among landed men, throughout the United States, makes it an eligible medium for giving such public notices, and one public; tion is is good as forty, unless in cases where the law prescribes a greater number of tones.

> The Autumnal Meeting of the Agricultural So ciety in Prince George's County, will be held at Upper Malboro' on the third Monday in this Month. Mem-

> > A. W. PREUSS, Sec'ry.

PRINTED EVERY FRIDAY AT \$4 PER ANN.

FOR JOHN S. SKINNER, EDITOR,

At the south-west corner of Market and South streets,

BALTIMORE.

EBEN. FRENCH, PRINTER.

# AMERICAN FARMER.

# RURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT,

" O fortunatos nimium sua si bona norint

" Agriculas." . . . . Virg.

### Vol. I.

# BALTIMORE, FRIDAY, OCTOBER 22, 1819.

Num. 30.

### HORTICULTURE.

### FRUIT GARDEN, FOR OCTOBER.

(From the American Practical Gardener.)

Winter Pears and Apples.

Gather your winter pears and apples.

Pruning.

When the trees have completely shed their leaves, you may begin to prune many kinds, but by no means

The pruning of peach, nectarine and almond trees, would not be proper to be done, before the latter end of February, in the middle states, nor before the first week in March, in the eastern states. In the southern states, this work may be performed at any time between the period of shedding their leaves, and the beginning of January.

Apples, pars, cherries and plums being hardy trees, may be pruned at any period, between dropping their leaves, and the first swelling of their blossom buds.

#### Planting Fruit Trees.

Towards the latter end of this month, most sorts of fruit trees may be transplanted, and particularly such kinds as have shed their leaves. The ground must be dry and not subject to water laying on it, in winter; each tree must be strongly fixed in its place, by tying it with straw, mats, &c. to a stake, drove into the ground, it must be so fastened as not to be rocked about by the winds

In the southern states, as well as in other parts of before the buds begin to swell.

at an early period

planted twenty feet from each other.

Plums and cherries to be planted from fifteen to

eighteen feet, if designed for espohers Peaches spricets, and nectarines, not less than fif-

teen feet, if against walls, &c.

## Planting Gooseberries.

Towards the latter end of this month, or early in November, is the most suitable season to plant these trees. They may be set round the horders of the it is wanted, and spread it upon the surface of the kitchen garden, from two to two and an half feet from the walks, and about six feet distant from each other; always keep the ground under, and immediately contiguous to each bush, entirely free from weeds or plants of any kind, as it will endanger the between the respective rows. fruit becoming mildewed and ruined

When you have an opportunity of obtaining superiour kinds, you may take cuttings from these, and plant them where they are to remain for fruiting O'd ouslies seldom produce well, after transplanting Previous to planting, prune them to one clean steni, of ten or twelve inches, before the head is formed.

#### Pruning and Propagating Gooseberries.

The latter part of this mouth, and the whole of n xt. will be a very suitable season for pruning gooseberries New varieties of this valuable fruit may be obtain-

ed by sowing seeds of the best kinds you are able to procure, either in this, or any of the autumn months, in beds, in the op it ground, or in boxes of good earth. From these seeds the plants will rise freely in spring; and by the succeeding spring, they may be planted in nursery rows, till they show the rooms of

thrown away. When sown, cover them near half an inch deep with loose rich earth. If kept till spring, the seeds will not vegetate freely.

#### Planting Raspberries.

If raspherries are planted between the middle and latter end of this month, and the shoots are strong ones, they will strike new roots before winter, and produce some fruit next season, but the succeeding year, they will bear plentifully.

Propagating Fruit Trees by Layers and Suckers.

The young shoots of mulberries, figs, filberts, vines, Se may now be laid in the earth; they will all be fully ronted in twelve months.

Suckers may be taken from berberries, filberts, &c digging them up, with good roots to each, and planting them where they are to remain.

#### Dressing Strawberry Beds.

The old strawberry beds should have their winter fressings this month; they should be cleaned from weeds, and the runners taken off close to the plants; toosen the earth between the rows to a moderate lepth with a small spade, taking care not to disturb the roots; line out the alleys, and let them be dug, breaking the earth very fine, and spread a portion of it over the beds, between and round the routs, but do not bury their tops A slight top dressing of well rotted dung, will be proper. This dressing will be a means of producing a more plentiful crop next season.

Preserving Stones and Kernels of Fruit.

Preserve in damp earth or sand, the stones of the the union, these plantations should all be completed various kinds of fruit you intend to sow for stocks Pear and quince kernels may be preserved in dry sand The latest riplining fruits, particularly late peaches. To provide apple seed, procure as much fresh pomace should be planted in a place of warm aspect, and also as may be n cessary, wash the seed clean, and when some of the earliest kinds, to have them in perfection you have a sufficient quantity for your purpose, dry it well on cloths, secured from wet, afterwards put it Apples and pears for walls and espaliers, should be by in bags or bottles, well corked and labelled.

# NURSERY, FOR OCTOBER,

#### General Observations.

Continue to trench and prepare the several quarters, in which you intend to plant stocks, to graft and bud the several sorts of fruit upon, and also for the vari ous other planting and sowing, that may be necessary

Carry manure into those parts of the nursery, where ground, round the stems of young trees; this will contribute to the preservation of their roots from frosts; the rains will wash in the salts to the roots of the trees, and in spring you may dig in the manure

## Propagating Tre s and Shrubs by Layers.

This month lay the various kines of trees and shrubs, which you wish to propagate in that way.

This is the best season to lay elms, limes, maple nost kinds of hardy forest trees, and flowering shrubs. for the moisture of the ground during winter will presare them for pushing out roots early in the spring.

Towards the latter end of the month, take off such ayers of the preceding year, as are well rooted; trimi their stems, and plant them in nursery rows or else-

### Propagating Trees and Shrubs by Cuttings.

Plant cuttings of all hardy trees and shrubs, that will grow by this method.

Cuttings of all sorts planted a year ago, or last planted in nursery rows, till they show to be east of spring, the tare well rooted, may towards the latter a hearer.

Fruit, then those that are good may be taken due care and of this month, be transplanted into nursery rows. When oaks, chesnuts, walnuts, or hickories are plant-

of, the others, by far the greater number, may be Plunting Acorns, Chesnuts, Chinquapines, Walnuts, Hickory-nuts. &c.

The best season in the year for planting acoms of every kind of oak, and also all the nuts enumerated above, is immediately after they fall from the trees, for when kept out of the ground much longer in a dry state, they lose their vegetating principle.

By sowing them at their proper season, they are subject to the depredations of mice, rats, and moles, therefore it is recommended by many gardeners, to preserve them, till the early spring months, either in sand, earth, or moss, and although they will sprout, yet this vegetation will not materially injure them, if they are set in a cold place till winter, provided the small radicles are not broken, when planted in spring.

The acorns, when planted, should be in drills about two feet apart, and within an inch of each other in the drills, and covered about an inch deep, where they may remain, till they have had two year's growth, when they must be taken up, and planted in nursery

Chesnuts, walnuts, and hickory-nuts, may also be planted in antumn, immediately after they are ripe, in their outward covers or husks, the extreme bitterness of which, as well as the species of the chesnut, will preserve them, in some measure, against the attacks of vern in.

Chinquapines ripening earlier than chesnuts, should, as soon as they have arrived to maturity, be planted in their husks, as the vegetative germ in most of them, s destroyed by the worm, particularly if kept for any length of time. They prefer a lean gravelly soil, and do not rise above twenty to thirty feet high. After these are planted, cover them about an inch with good earth, and when they have two years growth, they, as well as the chesnuts, may be taken up, and planted in ursery rows.

The Juglans Regia, or European walnut, also the soft shelled lickory-nut, and oval shaped Illinois-nut, when they are to be cultivated for their fruit, you hould make choice of the best nuts, of the varieties you wish to propagate, such as are large, thin shelled, and have the fine t flavoured kernels; plant them in bills three feet asunder, and the nuts to be planted about six inches from one another in the rows.

The whole of the above kinds may remain in the wed drills, for two years, and as they are generally subject to strike down, and not to force out many lateal shoots, it will be necessary, when they have had one or two years growth, to open a small trench, close o each row, in the spring, and with a very sharp pade, to cut the top roots about six or eight inches under ground, and afterwards throw back the earth. This will cause them to shoot out a number of laterals, and the spring following, they may be transplanted into nursery rows, to remain tell finally planted out.

But the European walnut will answer better, to be planted where it is to remain for fruiting. When it s to be cultivated in this manaer, previous to planting , dig a hole about two feet wid , and eighteen inches teep, in which place a flat stone, two feet square, then fill the hole up with good earth, plant three or four w lauts in the centre, that there may be a greater certamy, of having one plant in the place in the spring. The stone is intended to complathe top root to pet forth lateral shoots, without rijuring the growth of the plant, and, besides, when the top root is mutilated, dthough the tree may flourish for a few years, yet when it are ves to a full size for bearing, it gradually decays; but if the top root is not diverted from str kmg to a full depth into the soil, it will prove an exwellent timber tree, but will not be so productive as

ble to plant the acorns and nuts, when they are to remain for full and mature growth, as timber and forest trees seldom attain to so great a magnitude, after their top roots are cut off, and they transplanted, as if this name, that will answer but that particular one, suffered to remain undisturbed, where the seeds were sown. This remark, of course, offers an objection to the nursery culture of timber trees

Transplanting Stocks to Bud or Graft on.

Plant out into nursery rows, all the hardy kinds of seedling stocks, to bud and graft the different varietics of fruits upon.

Where stocks can be liad in sufficient quantities from seed, they are always preferable to suckers from the roots, but where there is a deficiency of the former the latter will answer. Plant them in rows three feet asunder, and one foot distant from each other in the POWS

Transplant all well rooted cuttings and layers fron the shoots, for the purpose of raising stocks, particu larly quinces and codlins, to bud and graft dwarf pears and apples upon, to form dwarf trees for walland espahers.

Planting Hardy Deciduous Trees and Shrubs. Hardy decidious trees and shrubs may be planted immediately after they have shed their foliage.

Pruning

In the latter end of this month, begin to prune most kinds of hardy deciduous lorest and fruit trees, flow ring shrubs, &c. clearing their stems from late rai shoots, taking off suckers, and forming their heads in a neat manner

Sawing Stones of Fruit Trees.

The stones of plums, peaches, nectarines, apricots,

Sowing Beech-mast, Maple, &c. The seeds of beech, maple, and other kinds of deci-Anous trees, may be either sown now or in March-

Apple, Crab, and Pear Pomace.

The pomace of apples, crabs, and pears, may be sown thick, and covered over one inch with good rich light earth. In spring the plant will rise freely, and furnish stocks for grafting, &c. Some make hedges of the crab.

The accomplished Editor of the N. Y. Evening Post has collected and made public the history of numerous cases, to show the efficacy of the Scullcar for curing the bite of mad dogs. It would seem, however, that after all his zeal, he has not entirely succeeded in convincing all his learned readers in New-York. We know, however, that when the fertilizing properties of plaster of Paris were first proclaimed, the Docti and the Indocti, the learned and the vulgar, pronounced it nothing more or less than quackery or witchcraft. We pray that few occasions may offer for testing the virtues of the Scullcap, on the human system; but we deem it a sort of duly, to accord in a paper like this, the particulars of investigation, prompted by humanity, and pursued with so much zeal and perseverance.-Ed.

FROM THE NEW-YORK EVENING FOST, OF MAY 8.

# ON THE CURE OF HYDROPHOBIA

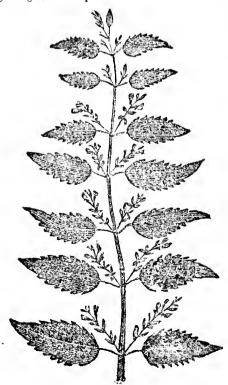
Hydrophobia—I promised yesterday to resume to-day the subject of mad dogs; but, if I had not, the case which I have just read from the Philadelphia papers, and which we re-publish this evening, would render some remarks at this time, on this awful and alarming topic, highly interesting and pertinent. This case is attes ed by two eminent physicians, and they add, that hydrophobia "is without the hope of a relief from medicine"—" we know of no cure for hydrophobia." This is a frank confession, and I have scarcely a doubt accords with the truth. It is a disease, which, when once having arrived at that pass, as to show itself by the usual symptoms in the system, bailes equally the skill of the most learned physician, and the nostrums of the boldest empyrick. But, fortunately, it is not so rapid in its progress, but that it may be arrested, and entirely counteracted and prevented, if proper means are seasonably resorted to, duly administered,

ed exclusively for their timber, it will be far prefera- and faithfully persisted in. These means nature has provided, in the plant called the Scullcap, which grows almost every where in abundance, in our country is not, however, every species of the plant bearing called in Latin, Scutellaria Latistora, or side-bearing flower, and not that one called Scutellaria Galericulata, or helmet-shaped. The former of these is efficacious in preventing this incurable disease; the latter is not. A mistake in taking one for the other has sometimes produced fatal effects, and brought the plant into discredit at the castward. Sometime since there was published in the Medical Repository, [hexade 3, vol. 2, No. 3.] an account of this plant, with an engraving but there was an error in the text, as to the species nor was the engraving, which was after the right sort, sufficiently accurate to correct the mistake.

Of the superiour merits of this invaluable plant, in the bite of a mud dog, as evineed in particular instances. I have not room here to give any more than a general outline. Dr. Vandeveer left it on record, that in upwards of three hundred cases, in which he seasonably administered it, the success was complete without a failure. Lewis asserted, that he had met with the like success in upwards of one hundred cases, of three or four of which, I was myself (happening to be in the county of West Chester at the time) an eye-witness into nursery rows, or where they are finally to remain, Dr. Thatcher, in his valuable Dispensary, speaking of it, says, "Should this plant ultimately prove a successful remedy for a disease so truly deplorable in its nature, and so destructive in its consequences, no en comiums can surposs its merit even if recorded in letters of gold." The following i his description of it:

"The scutellaria is perennial, of which there are numerous species indigenous to the United States The plant is found in great abundance on the banks and borders of pouds; flowering in July or August. The stem is square, branched, and attains the height of &c may now be sown, or they may be preserved in from one to three feet. The leaves are opposite, nar-sand, &c. to be planted in March. axillary and lateral, bearing small violet coloured blos-The calix is soms, intermixed with small leaves. hooded, or helmct-formed, from whence originated the genera name of scull-cap or scrutchlaria." This, bow ever, is a description of the genera, not the species.

Impressed with the deep importance it is of to the public, that these different species should not be coufounded, we have procured an engraving to be made by Auderson, of each of the plants. Here follows an engraving of the true plant.



The following represents the spurious one.



The eye will soon detect the material distinctions, while at the same time it will see a general resem-

The following is the manner in which Dr. Vandevecr and Mr. Lewis prepared and administered the re-

medy, as we find in Thatcher's Dispensary.

"The leaves should be gathered when in flower, (July or August) carefully dried, and reduced to a fine powder, and put into bottles, well corked, for use. When a person has received a bite by a mad dog, ho must take of a strong infusion of the leaves or powder, a gill four times a day, every other day. The day it is omitted, he must take a spoonful of the flour of sulphur, to the morning, fasting, and at bed-time, in new milk, and apply the pounded green herb to the wound every two hours, continuing the prescription for three weeks. Por cattle or horses, three times the quantity

Thus I have, in the shortest and plainest manner I am able, treated of a subject, now, particularly, in the highest degree interesting to the community at large. And I have done so in the full and unshaken belief in the virtue of the plant, here recommended to the public, and perfectly aware of the deep responsibility I assume, in thus trying to persude the patient and the physician to put life itself upon the issue. With the late benevolent Robert Bowne, whose letters on this subject are published at length in the Medical Repository, and in Thatcher's Dispensary, I can with great truth declare, that my confidence in the virtue of this herb, is so great, that, if bitten myself, I would trust my life to it, rather than to the skill of all the physicians in this city.

#### FROM THE SAME PAPER.

We now redeem our promise, by giving the statement of the case of James Cann, who was bitten by a mad dog, and cured by the plant called Scullcap, as drawn up and furnished us by his two physicians.

"Early on Thursday morning, the 10th June, I was called upon by James Cann, who requested me to dress his right hand, which had just been hitten by a dog, that he believed was mad. Upon examination, I found the dog's teeth had penetrated deep into the muscular part of the thumb, between its metacarpal bone, and that of the fore finger, and that the skin was but little lacerated. From the situation and depth of the wound, I deemed,

ings, telling him, at the same time, if the dog should ately ordered his scullcap to be resumed, and not again prove to have been mad, he had nothing to fear, as a plant had been discovered (showing him a drawing of found his spasms to subside. the scullcap in the Evening Post,) which had never been known to fail in such cases, when properly adminis-In the evening I saw him again, and then ad vised him to call on Jesse Williams, the son-in-law of the late Mc. Lewis, of West Chester, and precure from any thing but weakness. We directed him to con-him a quantity of sculleap. He did so, and obtained limite in the use of the sculleap three or four weeks about three ounces of the dried borb, finely cut up, longer with directions to put a tea-spoonful and an half of "..." it in a quart of warm water, and to drink half a pint whatever, and has been free from complaint ever since of this infusion morning and night, for two successive, days, and on the third day to onut it, and take a teaspoonful of floor of sulphur. In this mouner Williams directed the endless and sulphur to be alternately the result of our inquiries and observations concernused for forty days; during which time, exercise was to be avoided, and an abstanious diet observed : he the bite. thought the wound required no other attention than simple dressings. Mr. Cann strictly followed the shown marks of ill temper, until the day before he bit above directions, and remained free from complaint caun, when he snapped at, and attempted to bite a der frightful spasms of the muscles of the face and neck; his face was drawn towards the right shoulder, bis head convulsively shaken, he ground his teeth with violence, his eyes had a wild and terribe stare, and his without noticing him, it he had not, when opposite, whole aspect was appailing; but the spasm soon sub sided, and he became perfectly calm. Upon inquiry I found he was first attacked with a shivering, then a snaps, and passed on without looking up; a few yards miliating acknowledgment, that they know of no repricking or tinglin. Sensation about the parts bitten, further, he snapped at and quarrelled with three medy in the case of the bite of a mad dog, on which muscles of the hand and arm; to these succeeded a tice of his master was attempting to tie him with a sense of tightness about the chest and throat; immedi-rope, he snapped at, and tore off a part of his trowately after which, followed the convulsive action of the sers. museles of the face and neck above described. I found his pulse and breathing regular and natural during the ness, excited serious apprehensions; he was immeintervals; but when the paroxysms were approaching they became hurried and irregular, and continued so till he ate sparingly, but Japped water freely; he snapped the spasms had gone off, when he complained of slight at his master; was restless, howling violently, and pain in the right breast, together with soreness and stiffness of the back part of the neck. Liquids he took without difficulty, nor did pouring water from one hole through the door, in doing which, he had lacevessel to another, in his presence, produce any per-rated his mouth, and broken off several of his teeth ceptible distress; neither did the sight of the surface against the nails of the batting. At this time, after of a polished mirror, or the waving of a white curtain, many attempts, he lapped a little water, and then up-how we know the dog that bit the patient was actually sensibly affect him. His paroxysms returned at irset the vessel which contained it; refused food, and mad: and how can we know that if he was, the hite regular intervals of from five to ten minutes; their snapped at the approach of his master; his eyes were would have proved fatal, if left to itself? As it is are dination being from one to two minutes. His bowels being constipated, I gave him a scruple of calomel, and directed him to drink his tea, (which upon inspection, I found very weak) as strong as it could be made to take it warm, and in as large quantities, as his sto mach would bear-using it as his only drink.\*

"18th. Early in the morning, Dr. Robson saw him with me, and continued to see him afterwards. We learned that some unauthorized person had taken ten and put in a cool, airy, and dry cellar; he was regularly or twelve ounces of blood from his arm the night before; that his cathartic had operated freely during the began to show symptoms of canine madness; the unnight; he had taken largely of his tea, and thought her jaw fell; his food dropped from his mouth, when himself better; the spasms, however, still severe, but he attempted to eat; he made many efforts to drink, thematical axiom, would be to put a stop to human, not quite so frequent. We directed him to continue

his tea as yesterday.

19th This morning we found him cheerful; he had passed a tolerably good night; feels much better than vesterday; his spasms moderating considerably, both in violence and frequency. He still continued his tea as before. In the afternoon, a shower of rain in the course of the next day, (the 7th) he was much fell, at sight of which, and the rippling of the water weaker, particularly in the hinder parts, producing fell, at sight of which, and the rippling of the water in the gutter, his spasm returned in quick succession, slight staggering; his tongue was livid and brown and with more violence, than they had done at any slimy fluid was observed to run out of his mouth. On the other time during the day, and produced him such sen-sations, that, to use his own expression, he could not touched him; he was thirsty, and lapped water very bear to look at it, and was obliged to turn away.

well; his spasms rather more frequent and severe. leaving him with a disagreeable feeling in his head, and acute pain in the back of his neck. Upon inquiring whether be still continued his tea, he replied, that

extingation inexpedient, and directed superficial dress; of taking a dose of sulphur; on which we immedito omit it, unless directed by us; he did so, and again

> "21st. He said he felt like a new man; his spasms had nearly left him; still continued the use of his tea

" 22d. He had no spasms, nor did be complain of any thing but weakness. We directed him to con

" taly 13th. We saw him; he felt no uncasines

we last visited him.

"To enable the reader to form just conclusions respeeting the character of the above case, we will state ing the rabid state of the animal which had inflicted

"The dog was young and gentle, and had never broke loose early the next morning, the 10th, when trotting along, and, Cann thinks, would have gone on called him by name, and was in the act of patting his

"Behaviour like this, so opposite to his usual milddiately tied in a wood house While thus confined. gnawing furiously at the door of his prison. By the evening, when we saw him, he had gnawed a large watery and dull, sometimes closed, then suddenly opened, when he snapped at imaginary objects. He now broke his rope, and, as no one dared appreach him to replace it, believing him mad, he was shot. Our next inquiry was after the dogs, which had been bitten by this one, but we found they had all been destroyed, except the one last mentioned.

This dog was secured the same day he was bitten, fed, and continued well until the 6th July. He then frequently barying his nose in the water, but did not appear to swallow; he was obedient to his master commands; was dull and moping, but would occasionally snap at imaginary objects, in the air or on the floor; his eyes were languid and watery, and considerable frothy saliva was discharged from his mouth slimy fluid was observed to run out of his mouth. On the frequently, without being able to swallow any; his "20th. We saw him about poon; he was not so tongue was darker, and his debility increased rapidly, he would not cat, and staggered very much when be

attempted to walk. "9th. The dog appeared much weaker; seldom got up, except by compulsion, and soon fell down again. at Williams's direction, it was omitted for the purpose Hie appeared blind in lus right eye; his back much curved.

"10th. He was made to stand; had spasmodic formed of Cann's violent attack, sent him word, by his twitchings of all his muscles; would yet snap at any wife, that he must make his rea as strong as leverand object that touched him; towards evening he grew drink it warm, and as much as he could bear.—Ed.E.P. worse, and died some time in the night.

"The above statement of facts was drawn up for ublication, at the request of several respectable gentlemen, and is submitted without remark.

W. STILLWELL. BENJAMIN R. ROBSON.

ADDITION.

One word in addition. With several medical gen-demen, I accompanied Dr. Rebson to see Mr Cain, after his recovery, and heard him recount in person most of the above particulars; I daily saw the last mentioned dog, from the commoncement of rabies, until the day before he died; and I made inquiries of several neighbours who were called in to witness Cann's attack, and heard them confirm the description above given of his appearance. I will now say, that of this case is judged of impartially, I think it presents, not indeed mathematical demonstration, but that degree of evidence that must satisfy every candid and rational mind, of the efficacy of the plant in question, to prevent or to cure hydrophobia; and when we consider it in connexion with upwords of till Thursday the 17th. About noon he was suddenly man, without provocation, who heretofore had been the one hondred cases, that have been treated with taken iil, and sent for me. I found him abouring un-familiar with him. He was confined over night, but similar success, by the late Mr. Lewis, of West Chester, and upwards of the three hundred recorded by Cann, on his way to work, met him. The dog came the late Dr. Vandereer, of Rahway, (N. J.) in the course of a long practice, without a single failure, I think I shall not be thought asking too much, if I claim for it the entire confidence of the public; especially head, when the dog soized him by the hand, made two when the faculty of medicine are driven to the humedy in the case of the bite of a mad dog, on which extending over the hand, and running up the arm, acstrange dogs; he next hit a neighbour's dog, with they can place any reliance. Dr. Moveley has indeed
companied with slight involuntary twitchings of the whom he was accustomed to play, and, as an apprenrecorded several cases of successful treatment by mercury, and we are assured in a publication by the late Dr. Rush, that a cure was effected by copious blood-letting, still it is an undeniable truth, that physicians of eminence have repeatedly tried both methods, and still found their practice unsuccessful. It is a sad truth, that the most skillful of the faculty attend the patient only to witness, in helpless commiseration, the last agonies of the most frightful death; totally and confessedly to prevent or retard its certain approach, or even to mitigate its horror.

But we may have been presented with objections, and are demanded to answers them before we can lay claim to the public credence. It is asked, for instance, undisputed fact, that the bite of a mad dog does not always take effect, we frankly answer we do not, we cannot know either, to a certainty. But we say the nature of the case does not admit of certainty, in the strict sense of the word, and we also say, that nothing more can, in fairness, be required of us, than to produce the best evidence the nature of the case admits of; this is all that can be demanded, according to the strictest rules of evidence, laid down by the highest authority. To ask more, and to expect of us that we should not proceed to act upon this species of proof, because it does not amount to the certainty of a maagency altogether, and reduce mankind to automatons, incapable of volition or action. We do e mend then, that it is enough for our purpose, that we have offered evidence of the highest probability, and maintain, that it is sufficient to warrant the conclusions we have drawn. May we not, at least, say,

–Si quid novisti rectius istis, Candidus imperti ; si non his utere mecum.

Since writing the foregoing observations, I have had the pleasure to receive a letter from Dr. Tha'cher, whom I have not the honor personally to know but who bears the character of a learned physician, and & liberal and amiable man. In his letter, he isquires with great solicitude, for further information respecting the sculleap. It may be recollected, that I republished, not long since, his letter from the Medical

<sup>\*</sup> Mrs. Williams, the daughter of Lewis, being in-

<sup>\*</sup> Vide the late letter of Drs. Griffith and Sargeant, republished in the Evening Post, of June 3. Their vords are, "We know of no cure for hydrophobia; we know of no recoveries; hut black hopeless despair stares every one in the face, who becomes the subject of it."

Repository, stating that he bad used it in the case of a whose minds are of such a curious texture, that they cutar respects more at large, for an article, in his last boy bitten by a mad dog, and that it had entirely fail- readily yield to the improbable, and sturdily resist a number, on the above subject. However he may ed; on which I remarked, that his instance was not degree of proof, that convinces all mankind but them-wince, he must remember he has nobody to blame but stated with sufficient particularity, to enable us to selves; men, in short, who may be easily known by himself. judge of it, in as much as it did not appear in what their dogged obstinacy in error, and their contempt of quantities it was adm. nistered, nor whether the plant common sense. - But it is time to present the reader was of the genuine species; and his letter to me cer-with the case, as detailed in the following letter, tainly implies his own doubts. In the leading case now before us, if Cann had not been directed to increase the strength of his decoction, and to drink plentifully and constantly of it, without regard to the occurred in my practice, leaving it to you to dispose ordinary prescription, his would have been considered of it in any manner that you may judge proper. another cause of failure, and in all probability, the plant would have been brought into entire discredit with the world. Accident alone has prevented so great a misfortune to the human species.

#### FROM THE SAME PAPER OF AUGUST 9.

The writer of the following is personally known to the editor, and is a man of the first respectability.

#### COMMUNICATION.

Joseph E. Crandle, of Kinnerhook, states, that about fifteen years ago, a man by the name of Ketcham. living in Pittstown, was bit by his own dog, early in the morning; that the dog immediately after biting tice of any thing: towards evening snapped at objects, his master, bit several of his hogs and cattle, and went off. From his conduct, Ketcham suspected immediately after biting that came in his way, and ately that he was mad. There was at this time a famulation of the conduct of the considerable difficulty, his back attempted to bite; at length actually did bite the lady curved forwards very much; at intervals of five or ten ily in the neighbourhood, which had resided in West abovementioned, on the ball of the thumb, making Chester, and had heard of Lewis's remedy for hydro-four incisions through the skin. He was then immephobia. They advised Ketcham to go down to him dia ely killed. On the same day she sent for me, and without delay. He did so, and Mr. Crandle went with advised the immediate use of the scull-cap; but, not the wound was inflicted; by which time Ketcham of another person, which had been gathered two years; complained, and thought he felt some of the symptoms of hydrophobia. On their arrival at Lewis's, Ketch—with directions to give it every other day, as prescribate in the symptoms of hydrophobia. am immediately commenced taking his medicine, and cd by Dr. Thatcher. She did so, and the wound healtook a supply of it with him. He continued taking ed in a few days, with no unpleasant symptoms. But, a strong decoction, as prescribed, for forty days, omit-on the fifteenth day after the bite, she felt a slight ting it every other day, when he took a dose of sul- pain or itching in the part bitten, which soon became phur. That Ketcham staid three or four days at his brother's, in Dutchess county, on his return from about the size of a six-peace, arose and extended over Lewis's, that, in the mean time, the hogs and cattle, the cicatrix of one of the marks of the dog's teeth; which had been bitten, had become mad, and were killed.

three in another, by a dog which proved to be mad. sensation in her head, and sometimes also a giddiness, That the parents of the children, having heard that he (Crandle) knew the plant which Lewis used, applied complained of lassitude, with stricture and heaviness to him for it. He procured it, and gave them directions according to the receipt he had received from Lewis. That the children took it, and never experienced any injury from their wounds. Mr. Crandie did not go to the neighbourhood, but has inderstood, growth, which fortunately I obtained, and in blossom ; from the persons who applied to him for the medicine, that this dog proved to be really mad.

Mr. Crandle raised the plant first from seed, which he received from one of Lewis's neighbours; and has since been in the habit of gathering it from fields. He generally finds it in low grounds, and always keeps it in the house.

#### FROM THE SAME PAPER OF SEPT. 9.

Recent case of hydrophobia, cured by Scullcap .- The following history of this ease was received by yesterthe patient, to Dr. Spalding, who is engaged in preparing a publication on this important subject. This on the wound two days longer, when it healed, and some particulars, even more satisfaction is helter thank with diminished strength, three weeks longer in the patient of the house with diminished strength, three weeks longer is helter thank with diminished strength, three weeks longer in the patient of the house with diminished strength in the patient of the house with diminished strength in the patient of the house with diminished strength in the patient of the house with diminished strength in the patient of the house with diminished strength in the patient of the house with diminished strength in the patient of day's mail, in a letter, from the physician who attended still better. On the 18th she said she felt quite well, agrees as to the time that usually intervenes between but has experienced no pain or unpleasant sensation affected: one of them lies on his side, having convulagrees as to the time that usually intervenes between put has experienced no pain or unpreasant sensation affected; one of them has on his side, having convented the bite and the appearance of the symptoms of insince the 18th day—enjoying her usual good health, and going about her domestic labors as formerly.

It will, perhaps, be said, and and going about her domestic labors as formerly. and uncandid, that it does not appear in this case, as it did in that of Cann, that the dog in question was actually mad, being killed before the truth was ascertained. The above symptoms were noted down at the time of a nerrous field in that of Cann, that the dog in question was actually wous temperament, but resolute; and she followed my prescription with much confidence.

The above symptoms were noted down at the time of a nerrous field in that of Cann, that the dog in question was actually wous temperament, but resolute; and she followed my prescription with much confidence.

23. The decoction increased to one symptoms of caoine madness, and, taken in connexion with the nature of the disease, that was caused by his bite, it affords us a moral certainty of the fact. There will, however, be found some few of the faculty, who of every sensible and candid physician in the United thirty-first day since they were bitten; still taking a

" Montague, (Mass.) Aug. 22, 1819.

Dear Sir: I send you the particulars of a case that.

Mrs. II—, belonging to this town, of a healthy constitution, 24 years of age, was bitten, on the 5th of July last, by a puppy four months old, supposed, by herself and her friends, to be mad. The following were the marks he showed of rabies: On Saturday the 3d he refused his accustomed food, appeared stuand frothy slime: he frequently staggered and fell soon afterwards she felt a fixed pain in the wrist, which extended to her elbow, and shortly increased and That about eight or nine years ago, five children were reached to her shoulder; wandering pains in her back bitten in Rensselaer county, two in one family, and and joints succeeded; she felt a painful and strange so that she could not walk straight forward. She now in her breast, accompanied with difficulty of breathing. On perceiving these alarming symptoms, I concluded that the plant had lost its virtues by age and exposure, and endeavored to procure some of recent by the caustic, from both patients, and scattered of this I ordered a strong decoction to be taken immediately, in doses of half a pint each, four times a day, to be suspended every other day, and a table spoonful of flour of sulphur, in new milk, to be taken in its stead. For the greater precaution, I also punctured the bitten part, which discharged a little watery fluid, and applied to it the bruised leaves of the plant, which I renewed once every 4 or 6 hours. On the 16th day symptoms were but little abated, and her pulse somewhat depressed; but she had slept more quietly. The 17th the pain, except in her wrist and head, had subsided, the bite had lost its redness, and she had slept to take one gill three times a day. still better. On the 18th she said she felt quite well, 13. This day the dose, of the above medicine, was excepting a little weakness. She kept the application increased to one pint and a half during the day; the

l am, sir, your's, respectfully,

PETER FISK,"

The above case is recommended to the critical notice will, with the editor of the Medical Repository, affect States; in which number, however, let it be under-quart each day.

still to doubt; who, having once adopted a theory of stood, I do not mean to include the editor of the Medical Repository; affect states; in which number, however, let it be under-quart each day.

Sept. 7. Forty-one days have now elapsed since they their own, are impenetrable to demonstration; men dical Repository; to him I shall shortly pay my particular under my care; although I consider them as

FROM THE ENQUIRER, OF SEPT. 14.

To the Editor .- Sir.

Public enquiry having been much excited of late, by several publications, recommending a species of scull-cap, as a certain remedy for hydrophobia; and as that enquiry has as yet been but illy satisfied, I have thought proper to make known the two following cases, in which the above plant was liberally used, without farther preamble I shall proceed to relate

July the 29th, I was called to see Daniel, the property of Col F. Poval, aged about 13 years, who, it was the 3d he refused his accustomed food, appeared studied and sickly, head and ears hanging down, and stated to me, had been bitten about 20 hours before by hewed no disposition for playfulness. On the 4th still refused to eat, his eyes were red, dull, and full of that he had been bitten in about ten different places, and his month covered with annarently tough on the left side of his body, between the lowest short tears, and his mouth covered with apparently tough rib and the spine of the illium. He stated that, while and frothy slime: he frequently staggered and fell playing with the dog on the preceding evening, the down; sometimes started up quick, and attempted to latter was taken with something like a fit, and bit him the above described manner, without having shown minutes, he would attempt to rise and bite at every thing within his reach; he died during the night, Being informed that two hogs had been bitten by him, I ordered them into immediate confinement, bites being numerous, and some time having clapsed since their infliction, I applied lunar caustic to them very liberally, and over that laid a dressing of Epis-

July 30. Upon visiting Daniel to day, I was requested to see Griffin, aged about 15, the property of Mr. James Brander. Upon questioning bim, he gave me the following account: that about 45 hours before, the same dog, alluded to ahove, came to him, gently bit off or nibbled the scan from a sore, on the first joint of his thumb, licked it for some time, and then left him. As both of the above patients were treated in the same manner, I have united the descriptions of their cases. Wishing, if possible, to make a trial of the Scutellaria, which had been much extolled as a cure for hydrophobia, I endeavoured to procure some; but every species gathered in this neighbourhood proved to be either the Scutellaria Integrifolia or Pilosa; orders were immediately sent to New York for a supply of the Scutellaria Lateriflora.

emetic tartar freely over the clean surfaces of the sores. I may here observe, that I found this article superior to any other which I have ever tried, as an irritant, in keeping up continued ulceration. above treatment was daily repeated, until the eighth, when each one took a dose of salts.

August 10. Having, through the politeness of Mr. Fitzwhylsonn, of Richmond, received a supply of the Scutellaria Lateriflora, I commenced the use of it, 18 form of decoction, made in the following manner; to one ounce of the dried plant I put one quart of water, and having boiled it 25 minutes, the hoys were ordered

sores still very much inflamed, from the application of

general convulsions, which may be increased by fan-

23. The decoction increased to one quart a day, to each; the applications of the caustic entirely suspended.

ance of the medicine a few days longer.

Having related the treatment and issue of the above cases, I shall now endearour to anticipate and satisfy some of the enquiries which, I believe, will arise in the mind of every man who may read them. As to the the "LEGITIMATE practice." dog's having been mad, I think there cannot be the least shadow of doubt; and, when we take it into consideration that one of hogs which died mad, was bitten only on the ear, and one of the boys was hitten in ten different places, every one will admit that the not yet been vanquished; and its ravages are equally onnine virus must have had as good, if not a better, opportunity of infecting the latter than the former. Alas! hydrophobia, like the pestilence that walketh When we take it into consideration, also, that every in darkness,' still displays its superiority, in defiance thing which the dog bit, but those boys, died with of all efforts of human skill.' And he concludes his hydrophobia, (although nothing was bitten so badly as one of the latter,) I think we may safely draw the their systems, but that they would have been affected cluded the most critical researches. with disease had it not been prevented. Which, then, intactible out of our sight and out of our knowledge of the remedies enumerated above, could have coun. We are permitted to know it only by its calamitous caustic? I think not : for many hours had elapsed caustic? I think not: for many hours had elapsed power and unrivalled malignity. An investigation of between the infliction of the bite and the application its abstruse properties, and a solution of the intricate of the caustic; and even when it is applied immediby most respectable physicians, that it will not succeed in preventing the discuse.

place, to the Scutellaria : could that have succeeded in systematic writers, and want of uniformity among phy- privilege of an old acquaintance, to ask a favor of preventing the infection? To this question I know sicians, the advocates for the virtues of this plant will unhesitakingly answer yes; but it behoves us to possess a suf-ficient degree of scapticism, to prevent the too ready acceptation of the numerous remedies, which are daily presented to the public by the dupes of prejudice or ignorance. But may not this scepticism be carried too far ? As regard- the subject at present under consideration, I am persuaded that, it at least merits a further trial than the ephemoral notice, which is generally bestowed on remedies of this kind. In favor of the scutellaria it may be advanced, that the most simple and seemingly inert vegetable succeed in curing the most virulent animal poisons. Witness the decided effects of such remedies in the hands of the Indians, in curing the bite of a rattle-snake; the principal of which, I believe, is a species of the Collinsonia. It will, I hope, be plainty inferred from what I have advanced, that it is not my object to assert an entire ment is yet exhaustless; let us unite our endeavours, behef in the Scutollaria, as a specific; but to excite a further enquiry, and remove that apathy which is too often, perhaps, the cause of failure in remedies which to the plant. One species only is said to be useful object of universal interest, and rival a Jenner in ce-there is no calculating at what point of depreciation the Scutellaria Lateriflora. As there are three spelebrity. cies growing in this neighbourhood, this may be easily confounded with the others. The only specimen of laria Integrifolia and Pilosa

the bitten part with a knife. The virtues of the Scutellaria can be tested fairly only in such cases, where this important preventative has been neglected, or, from peculiar circumstances, could not be applied. Until this has been fairly established, the use of the knife must retain its acknowledged superiority over manae receipts to the simple calcareous stone, palmed Manchester

will be forwarded to any physician, who may have a suitable opportunity of testing its virtues.

nearly out of all danger, yet I have advised a continu-tic will not succeed in preventing it." The inference, then, although not drawn by him in words, I must consider irresistable.

A word here on the vaunted "regular practice," or as it is called by the Editors of the Medical Repository

Doctor Thatcher, in his "Observations on Hydrophobia," the latest work on the subject that has apthis monstrous hydra, this destroyer of mankind, has a reproach to medicine and a scourge to our race introductory chapter thus :

"The specific nature and constitution of the subtle conclusion, that the virus was not only absorbed into and refined poison of rabid animals, has hitherto It is equally teracted the morbid effects of the poison? Was it the effects, and in these we recognize its pre-eminent phenomena, which marks its operation, constitute a ately upon the reception of a wound, it is agreed on theme for the exercise of talents and ingenuity. That the history and pathology of this singular disease have never been clearly understood and illustrated, is ap-Our next enquiry is naturally directed, in the next parent from the various and contradictory opinions of

> "Several causes have conspired to perpetuate ignorance and error, relative to this intrinsic subject. One of which is a culpable disposition in authors and others to adopt and copy the doctrines and even the oral traditions from one another, without due examination; as if to add darkness to their own unintelligible mysteries. But the alarming prevalence of this evil has created a new and lively interest, stimulating to a laudable emulation in the investigation of its nature and treatment. Many important facts abstracted from vague speculation, are yet in reserve, to

"It is not a task that devolves on a single individual,

but demands the combined exertions of all.

"Great indeed is the labour; rich and bonourable will be the harvest of reward. The field of experiand resolve to give it another and more assiduous gleaning; nor cease to explore its recesses, until the hidden treasure shall be discovered; and he whose might otherwise prove useful. One word with respect hand shall pluck this laurel, will have achieved an

this particular species, which I have seen gathered in has attracted the notice of some of the most respectthis state, came from Powhatan; the species mistaken for it in this neighborhood, is, I believe, the Scutelria Integrifolia and Pilosa

To conclude, let it not be supposed, that I would known the result either by letter to myself or by advise a neglect of the only certain preventative of this means of the public prints. If it possesses not the virtue I ascribe to it, let the failure be immediately sippi for more, by diminishing its product on partimade known; if, on the contrary, every trial continues to be attended with success, as has hitherto been the I believe 3.4ths greatly aggravates our share of it, case in this quarter, can the knowledge of such a blessing be too extensively circulated?

t certainly do entertain the hope and belief, that the every other remedy, from the compound farrago of al- wishes of the learned and benevolent Doctor Thatcher pearance in Georgia for the first time, I think, in are at length accomplished in the discovery of this the year 1817, was much more destructive last upon us by the superior cunning of the East Indian antidate. We trace this plant with certainty no far year, and this year; in many situations, threatens Jugglers.

WM. G. NICE, therethan to Dr. Lawrence Vandeveer, of New-Jersey; the destruction of the entire group—Its advances but a respectable aged lady of New-York, says she P. S. I have a supply of the genuine plant, which remembers to have heard its virtues spoken of many name and the residence of the real discoverer has probably been lost. I do not assert it may not fail, Remarks.—If this candid and respectable physician did, as it is a fact that will be stated in Dr. Spalding's which in 1817 and 1818, amounted to something like can mention any one individual case of cure, by ex-lcompilation, which is to appear in a few days, that eleven millions of dollars, may this year fall short of cision of the bitten part, and by caustic, I will thank more than one thousand cases have been attended with three. The crop of last year fell short of the preced-

# Internal Improvement.

FROM THE NEW YORK COLUMBIAN.

Selections from manuscripts transmitted to the New York Corresponding Association for the promotion of Internal Improvement, communipeared, says, "It is indeed a melancholy truth, that cated for the Columbian by the committee of pub-

> The history of the disease called the Rot in the growing Cotton-plant of Georgia, Louisianna, Mississippi, and Alabama; and the expedient of avoiding that great calamity, by a change of seed, procured from the southern hemisphere-in a letter from the hon, George M. Troup, late senator in the Congress of the U. S. to Samuel L. Mitchill, dated Dublin, Laurens county, Georgia, Aug. 18,

> Read before the New York Corresponding Association, for promoting internal improvement, &c.

> Dear Sir-Your labors are so various and incessant, I am almost ashamed to avail myself of the

> Some of your merchants trade to the Brazils, and through the politeness of one of them you may be able to procure for me, two or three casks of the cotton seed of that country, selected from a good crop and delivered here before spring. The expenses will be defrayed by drawing on Messrs. Campbell and Cumming of Savannah, at sight.

You know the rapid strides with which, by the demand for their great staple since the late war, be unfolded by the joint efforts of the experimentalist the southern states have been advancing to opu-and philosophical physicians. | lence—and you will conjecture that the luxury and lence-and you will conjecture that the luxury and extravagance which commonly attend them almost every where, have not failed to accompany them here. It was in the full career of accumulation and amassment on the one hand, and of speculation and wasteful expenditure on the other, that the storm which now agitates the commercial world, overtook us-cotton fell at once-has continued to fall, and it will stop. A sudden depression, therefore, of With what pleasure do I learn, that the Scutellaria something like 50 per cent below its highest price, Georgia for three years, in Louisiana and Missiscular farms 1-3 1-2 2-3ds, and in some instances and may be said to make it peculiar. This evil (very appropriately called the Rot) made its apthe destruction of the entire crop.—Its advances seem to be eastwardly, as we first heard of it in years since, by a lady of distinction in Virginia. The Louisiana, and afterwards in Mississippi and Ala-

<sup>\*</sup> From the combined operation of these two causes, after all; but it would be very extraordinary if it it is not improbable that the exports of Georgia, thin to do so. Dr. Nice certainly does admit that the complete success. Can you say as much, Messrs. ling by about 20,000 bales in the 100,000, or 1-5th, dog was mad, that there is the highest probability, that Editors of the Medical Repository, or a fiftieth part the boys would have been affected with the hydro-as much, in favour of any "legitimate practice." ever extended. Heretofore, the high price has compensate phobia, had it not been prevented, and that "it is yet known to the faculty? Magna est veritas it prevalebit. [E. Post.]

board planter, but if the variety of the plant which which has been, as the planters say, a seasonable getable, like the animal creation, is subject to be cultivates, does not exempt him he has good year, there is more rot discoverable than at the its periods, regular or irregular, of sickness and reason to dread its approach. It has given rise, same time of any preceding year, and there is eve-decay-no vegetable has been exempt-with as you may imagine, to much of theory and specu- ry probability that it will be both more general many as with fruit trees, disease attacks suddenly lation here-some referring its origin to a winged and more destructive. In the same season too, and violently in some instances-in others innerinsect perforating the exterior coat of the how |- | according to my observation, it is in no degree in-| ceptibly and gradually-in both, the doctor has others to a disease of the plant itself; both sides flueueed by it-fcr instance, this year it showed sometimes effected a cure-in others, in despite have their reasons and authorities—among the litself in my neighbourhood in the most alarming of all prescription, the disease has terminated in latter, the one most frequently resorted to on the manner for the first time, when the corn and eotone side is that of our old friend the late theorem or tan had begun to suber from a dry spell of two or vegetables we can avoid deterioration only by Milledge, who seems to have satisfied himself the disease proceeded from the fly. The observations siderable time in very wet weather, and to recom- to the sustenance of man, and which occupy the which led to this conclusion I have never heard.

The general fact is, however, of some importance, as he was a man of close investigation, had studied and I believe earlier last year than the preceding, and degeneracy. In England when the blast has the history of the plant and had watched its progress. This disease attaching at different times with diffastened upon the corn crop generally, the only in this country from its first introduction to the ferent degrees of violence, I will not hazard the cases of exemption have been those in which by time of his decease. Nothing subtracts so much assertion, that its cause is uniformly distinguished accident, experience, or experiment, the change from the weight of his authority as the circum-by the same appearances. The first indication or crossing had been adopted.\* stance of his observations having been confined to in very many cases is, a dark brown or black spot.

May it not be well, therefore a very short period and within a limited sphere, on the bowl-in others, the whole exterior of the doubtful stage of the controversy, to make trial of the rot then making its appearance for the first owl seems to have passed at the same time from change of seed? not of the same variety drawn time, and exhibiting itself but partially.—The the green to the dark brown, and is saturated with from a distance, which might of itself be useful; more general opinion since, seems to be that the moisture, and whilst it is evidently suffering the but of a different variety which either alone or in disease is of the plant itself and probably having its process of fermantation, will open and deliver the committure with other seed would extirpate an origin in the seed. It may be satisfactory to you to wool uninjured. It is the same disease, exhibiting evil, as yet a growing one, which exhausts our have an account of its first appearance, its progress different features as it rages with greater or less resources faster than war, and which if it progresses and termination—I give it to you the more cheer- degree of acrimony.—It attacks the bowl in eve- for a few years to come in the same ratio as the fully as it is by no means impossible, we may be ry stage from the first formation to that stage of part, will leave us little more than the necessary indebted for useful discoveries in relation to it, to its perfection which immediately precedes develope-food and raiment and shelter. the science and illumination of New York

The first indication is seen in a small circular spot on the outside of the bowl, exhibiting a darker spot on the outside of t Many of these are frequently seen at the same trained and treated all alike. I do not to the same how. They spread themselves sometimes faster, sometimes slower, as if influenced either by the state of the atmosphere, or condition of the plant; changing color as they progress, until they assume a dark brown approach—who have escaped with least, will have their the results of the plant is commission the less results of the plant is commission the less results of the plant is commission the less results of the plant is commission the less results of the plant is commission the less results of the plant is commission the less results of the plant is commission the less results of the plant is commission the less results of the plant is the ing to black, and until either the whole exterior is turn. The mode of cultivation makes no difaffected in like manner, or until it receives from ference. There are two modes, the close and the some cause a sudden eleck, and then this appear-thick-set. The last has become fashionable of interested (excepting only the cotton raising states ance is only partial. In the first case, the disease late; but I have seen the isolated plant and the themselves) than that of which you are a distinguishhas penetrated to the centre of the fruit, the fer-one environed by the branches and over shadowed ed citizen There is scarcely art, trade, or promentation is complete and universal, and is seen by the top of its neighbours, equally afflicted. fession, practised in your great metropolis which in a frosthy white liquid, thrown out on the surface This inveterate destroyer of one kind of the vegePutrefaction follows, and the destruction of the table kingdom, unlike the ancient destroyer of one perity of the cotton trade. Your merchants could in a feathy white liquid, thrown out on the surface This inveterate destroyer of one kind of the vegeseed and immature wool being finished, nothing is species of the animal, spares not the humble nor left but the rind or exterior coating of the bowl, the proud—the dwarf and the giant are equally his which exhausted of its juices, hardens and turns prey-the plant which has energy enough to blosblack, and thus terminates the process. In the som and develope one fruit, or the more sturdy other ease, (that of suddenly checked disease) the stalk loaded with his hundred bowls. interior of the bowl, in some instances, remains unhart-in others, is only partially injured, and in statement that rain or sunshme-hill or dalethis last case, the pods remaining unburt, may ma- soil, whatever the predominant earth-cultivation ture and expand This, however, rarely happens, whatever the mode, stop not his march. as the disease is wonderfully eapricious, going and recur, therefore, to the existing controversy. I attack, may fall victim to the second- or is this number where their ravages are greatest? -The rot in 1718, was both more general and drought.

I think you will conclude from the forefoing coming unaccountably-attacking at one time with insect or constitutional disorder of the plant the more, at another with less violence; so that the cause of rot? If insect, would they not be seen fruit which escapes entire destruction on the first (for they are said to be plainly visible) in greatest known to both of us, will take pleasure in removing capriciousness justly attributable to changes in have examined fields most injured by rot and the atmosphere; its origin even does not seem to could never make any discovery of them—besides, originate with fly, the insect will pierce, without have any connexion with weather. The year the year of drought is the year of insect-the rot 1817, when not first appeared, was one of remarka- made its appearance in a year of wel-since that. ble wet. The year 1818, one of remarkable drought it seems not to have been affected by either wet or

bama. It has not yet done mischief to the sea-more destructive than that of 1817. In 1819, What link you of the following theory? Ve-

May it not be well, therefore, in this dark and

The Indies and South America, pushed us out I think I have shown you, by this summary of of the Indigo market, and we never think to re-

luctantly, because no state in the union is more. store it—their patriotism will prompt them—they will not suffer to come to nothing, so far as depends upon them a great staple of the country nearly equal in value in its best years to one half of the whole amount of our domest c produce exported, employing in its annual transportation 60,000 tons of ·hipping and 4000 seamen, and if they find freights low at Rio Janeiro, they may turn a profit is teringing a few thousand bushels of choice seed to Savannah and Charleston. Should the jealously of the Portuguese government (not to be expected) interpose difficulties, our minister there, who is

the experiment will be decisive. If the evil distinction, the Georgia and Brazilian plant. If

<sup>\*</sup> The indigo plant requires annual change of field,, but change of field does not prevent rot in cotton.

equal that, the stranger will escape.

I am, dear sir, with great respect and esteem. G. M. TROUP.

Note-Nothing so firmly sustains the inference of governor Milledge, as the fact that the rot appears to proceed from extraneous cause, beginning on the outside of the bowl and penetrating inwardly -but why should the insect intermit its destructive labours? Is it because the fly is short lived, and that the interval connecting two generations is filled by the chrysalis? How comes it too that the effect of perforation is not always the same? For what purpose is the bowl perforated? To receive the egg-1 cannot believe so: there is no appearance of megget or chrysalis. Is it to extract the juice as nourishment? 1 to itself and to every thing else 10,000 times the quantity it imbihes Besides, the rind which near maturity is too thick and its texture too close to be penetrated by any than a fly of large body, armed with a strong and sharp proboscis, and such a fly could not pass unnoticed by the most superficial observer; the puncture of the rind, by a pin or needle, produces no rot-we are to presume, therefore, that a most acrid and subtle poison is ejected from the proboscis-if so, the effects ought to be uniform and we know them not to be so. I have endeavoured to be correct in my statement of the progress of this cvil, and to assure myself that I bad been guilty of no material errour or omitted any important fact. I have read it to my brother, Mr. Robert Troup, who is an experienced planter, and who had paid much attention to the subject-he says his observations correspond with mine. I do not believe that in the West Indies the cotton plant has ever been attacked by the rot.

P.S. If the seed could be procured from any of the districts south of Rio, as in latitude 30 or 32, so much the better-though not very important G. M. T.

September 22, 1819.

I fear I may not have been sufficiently explicit plete, and has water in it fit for transportation, mixed parcel of the latter averaged in anction yesteron that part of the subject which relates to the It is very certain that in three or four weeks, wa- day 7.7-8 grs; which is 2 gr. better than last week.climate, or region, from which the seed may be ter will be let into the canal from Utica to Oneida Stems are more saleable I am convinced that the Pernambuco Creek seed will not answer-probably even that of San points of the canal line, some of which will be the years 1318 and 1819, in hogsheads Salvador would not. It would require long time soon plying in it. And although the operations and great care to naturalise either. I know not have been much interrupted by sickness, from Sabow far south the cotton cultivation has been carri-lina westward, there is full confidence that this ed in that country, but the general idea was, to season will not pass away, until the whole middle procure seed, if possible, from a latitude approxi-section of the greatest canal in the world, is finishmating to our own. It was supposed that 20 or ed and filled with vehicles of conveyance. The 23 might answer, and, therefore, Janeiro was nam- completion of this section, will give us nearly four ed as the most convenient port. Excuse the hundred miles of water transportation into the introuble I give you, and believe me, very respectful- terior of our state, when we view its connexion G. M. TOUP. ly and sincerely,

### POST BORING MACHINE.

newly invented machine by Mr. James Corbett, of ing will be held for that and other important pur-Hanover township, in this county, for boring posts poses for fences. We are decidedly of opinion, that a for fences. We are decidedly of opinion, that a The northern canal, connecting Lake Cham- Prices Current at Bremen, August 19.—Cotton, Geomore useful invention could scarcely be introduced plain with the Hudson, is progressing under Upland, 26 a 32—Surat, 18 a 20—Rice, Car. per 100. to the public; for it is well known to all farmers, favourable auspices. Gov Clinton, the President lbs. 7 a 7 a 48 d.—Tobacco, Mayland, fine yellow, per that good fences are among the first and most imof the Board of Canal Commissioners, has passed lb. 27 a 38 gr.—Ordinary, 13 a 14—Vir. Ken. and Gov. portant considerations in their improvements; for the whole length of the line of the western canal Middling, 9 a 12-Ordinary, 74 a 8 - Inferior, 6 a 7. will among neighbours who keep unruly cattle, so works. It is confidently expected, that the norththey are equally the best preservatives of the crops, ern canal will be completed in the month of Nowhich have been forwarded and matured by the vember next, although some accidents have prosweat and toil of the anxious husbandman. When duced unexpected delay.

and we heartily wish him that success and remuneration, which such useful ingenuity merits, and must ultimately depend. to further this view, we hope our professional brethren will notice this paragraph in such a way, as their inclination and friendship for useful improvements may prompt them.

[Oracle of Dauphin

We rejoice to hear of any invention, that gives a hope think not—there is too much of wasteful destruction of seeing the present expensive and laborious system to consist with the order of nature, it renders useless of dead wood worm fences superceded; they look ugly,

# Occasional Extract.

New-York, Oct. 5, 1819.

J S SHINNER, Fsq.

DEAR SIR, -As the progress of the great Western Canal, must be interesting to you, and to the enlightened patrons of your excellent public journal, I have the pleasure to inform you, that this vast work advances with a rapidity that as- trish Potatoes, by the quantity, 60 cents .- Sweet Pctonishes its warmest advocates. The following tators, 65 cents.—Turnips, by the eart load at market, facts have just been communicated to me, by a distinguished gentleman who belongs to the Eoard Hay, \$18.—Straw, \$13. of Canal Commissioners.

The canal from the aqueduct across Wood Extract of a letter to a Commercial House in this town, dated Creek, all through the swamp, south of Rome, and Dear sir-In my first, which was hastily penned, for seven miles east of said aqueduct, is now comwith the Mohawk and Hudson.

The surveys will be ready to enable the commissioners to determine on the route of the western We have been lately much gratified in viewing a section, by the middle of this month, when a meet-

The northern canal, connecting Lake Cham-

matter how hard or crooked the wood may be, man industry. We will be great, independent, and imes.

in any other cause, the chances are more thangsurely he will be anxious to become the possessor happy, in proportion as we cultivate the soil, and of so valuable an article, especially when it can be rely on the avails of productive labour. We adprocured for about 20 dollars. The whole con-vance to national power and grandeur, while the struction in itself is very simple, and causes us light of ages brightens up our paths, and the phimuch to wonder, that it has never before been losophy of civil history, illumines and counsels. thought of. Mr. Corbett has applied for a patent, Agriculture and manufactures are the two great sources of wealth, on which the American people

With great respect and esteem.

CHAS. G HAINES.

#### WARMER. THE

BALTIMORE, FRIDAY, OCTOBER 22, 1819.

The proceedings of the Agricultural, Society of St. oeeupy much ground, catch a great deal of water, of Mary's County, communicated by order of said Society, course rot speedily, and require to be frequently for publication in the American Farmer, have been recighted up, and often altogether renewed.—Ed. ceived, and will probably appear in our next number .. Also a communication from a highly esteemed correspondent, on the construction of carriage wheels.

It was not until the paper was made up, that the Editor knew that it did not contain the next number on "Domestic Industry." We did not wish the scries to be interrupted.

Present Prices of Country Produce in this Market. FLOUR, from the wagons, \$550 to 62.—Whiskey, 38 to 40 cents per gallon.—Red Wheat, \$1 12.—White Wheat, free from garlie, \$1 to 1 20.—Corn, 62 cents.-Rye, 60 to 62 cents.-Oats, 45 to 50 cents.-

Bremen. August 19.

Maryland Tobacco keeps up steadily. Virginia and Kentucky may be considered somewhat higher. A

Comparative statement of the Imports and Sales of There are boats building at several American Tobacco at Bremen, in the first quarters of

1818.	Tir. S. Kn.	Md.	Total.
Stock from 1817,	615	1195	1810
Imports to Aug. 1,	2335	1090	3625.
Total,	8150	2285	5435
Sales to August,	1640	1920	3560
On hand August 1, 1819.	1510	365	1875
Stock from 1819,	1550	1215	2765
Imports to Aug. 1,	3245	1130	4375
Total,	4796	2815	7140
Sales to Aug. 1,	2860	1670	4500
On hand Aug.	1935	675	2610
		-	
On hand August 19, Of Stems, 1200 hlids	2015 s.	465	2150

Middling, 9 a 12-Ordinary, 74 a 8-Inferior, 6 a 7.

FOR ADVERTISEMENTS, which are, in their nature and objects suited to a paper of this sort, such as, the sales of land, seed, live stock, implements of husbandry, new inventions, &c. &c., will be inserted once sweat and toil of the anxious husbandman. When duced unexpected delay.

the farmer knows, that with this saving labour Our Agricultural Societies are producing great vance. The very extensive circulation of this paper machine, a man and boy, with the assistance of a and vigorous efforts in the interior, and under the among landed men, throughout the United States, horse, can completely hore 500 posts in a day; or protecting aid of our Board of Agriculture, will makes it an eligible medium for giving such public noone, two, or three, in less than half a minute, no present a new zera in the most vital branch of hu- in cases where the law prescribes a greater number of

# prices current

### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

ARTICLES.	PER.	RETAIL	PRICES
BEE!, Northern mess	bbl.	17	
No 1		15	
No 2	lb.	13 50 16	
Butter,	10.	31	37 1-2
Coffee, first quality,		33	0
second do	1	27	28
Cotton,		27	
Twist, No. 5,		55	
No. 6 α 10, - No. 11 α 20, -		56 63	<b>60</b> 90
No. 20 a 30,	1	90	
Chocolate, No. 1,		33	
No. 2,		28	
No. 3,	<b>\</b>	25	,
Gandles, mould,	hox	20	22 19
dipt, spermaceti,	1		scarce
Cheese, American,	lb.	9	
Feathers,		60	65
Fish, cod, dry	qtl.	3 50	
herrings, Susquehannah,	bhl.		retail
mackarel, No. 1 α 3 -	1	9 7 75	12
shad, trimmed, - Flour, superfine, -		6 13	6 50
fine,	bbl.	5 50	
middlings,		4 50	5
rye,	1.	4 a	4 25
Flaxseed, rough,		none.	
cleaned,	bush	do do	
Flax, Hides, dryed,	10.	12	15
Hogs lard,		12	
Leather, soal,	1	25	
Molasses, Havana,	gal.	62 1-2	
New Orleans, -		75	1
sugar house,	gal.	1 1 50	)
Oil, spermaceti," PORK, mess or 1st quality, -	bbl.	18 a	20
prime 2d do	1	16 a	17
cargo 3d do		14 a	15
Plaster,	ton	5	
ground Rice,	bbl.	1 75	•
Spirits, Brandy, French, 4th proc		2	3
peach, 4th proc	ı [	1 23	
apple, 1st proc		78	
Gin, Holland, 1st proc		1 50	ľ
do. 4th proc do. N. England	"	5(	60
Rum, Jamaica,	1	1 50	
American, 1st proc	of	7.	
Whiskey, 1st proc		5(	
Soap, American, white,	lb.	11	
do. brown, - Sugars, Havana, wbite,		1	
brown,		15 50	
loaf,		2	
lump,	lb.	20	
Salt, St. Ubes,	bu		
Liverpool, ground, Shot, all sizes,	lb.	7.	
TOBACCO, Virginia fat,	cw1		1
do. middlings,		6 5	0
Rappahannock,	-	5	5 50
Kentueky,	11.	6 5	
small twist, manufactured, pound do.	lb.	2.	
TEAS, Bohea,	1	6	1
Southong,	lb.	7	
Hyson Skin	1	1 . 7	
Young llyson,		1 2	
WOOL, Merino, clean,		1 7	
unwashed, -	-	8	
crossed, clean,			5
unwashed -	1	3	5
common country, clean,			5
unwash skinner's,	en -	2	[5] [6]
andmot s,	. 1	1 3	

FROM THE NEW-HAMPSHIRE PATRIOT.

Messrs. Hill & Moore.

increased fervour at this time, when the earth sylvania, there was found this season a root of altered to the more endearing sound of "Hard contained 62 grains. If the other heads were as hered to by all those, who are in the habit of 9000 grains of wheat from a single root. tipping the glass twice too often? In my opinion, those who are now idling away their TO FINE OR CLARIFY BEER IN TWENTY-FOUR time in the streets and grog shops, singing the song of "Hard Times," would be much more respected, if they would content themselves at home, bigness of two hen's eggs, which will dirturb the with their wives and children, chaunting the tune liquor and cause it afterwards to be fine, and of "Hard Cash," one equally as well beloved by draw off brisk to the last though it were flat beall. Then would the farmer and mechanic, with fore. Temperance, Industry, Frugality, and Economy, by his side, thrive as did our forefathers, when one gallon of rum would last them through haying.

#### "PROTEST.

"I protest that no more I'll get drunk-Tis the curse and the plague of my life; It ruins my credit, my health, and my purse My peace and my comfort-and what is still worse, It vexes and angers my wife!

"I protest that no more I'll get drunk-It torments and embitters my life ; To ruin 'twould hurry its vo'try headlong; And reason declares that I'm quite in the wrong, And so do the tears of my wife.

"I protest that no more I'll get drunk-Nor lead such a wretched vile life; Its attendants are poverty, shame, and disgrace— Disease and despair stare me hard in the face, And so does my heart-broken wife.

"I protest that no more I'll get drunk-'Tis the worst of all evils in life;

'Tis the curse of all curses, of mischief the worst; 'Tis the plague of all plagues, 'tis a demon accurst; No wonder loud chides my poor wife.

"I protest that no more I'll get drunk, For I find it the baue of my life; Henceforth I'll be watchful that nought shall destroy That comfort and peace that I ought to enjoy In my children, my home, and my wife.

Now the difference is, one gallon of rum would last through having in former days; but now one gallon is thought little enough per day for four hands. Alas! how great the difference—how "Hard the times!" The mechanic likewise cries " Hard Times ;" but let him remember that when his father carried on business, his hands were allowed but little ardent spirits; he found "Hard Cash"-his work better done, and more per day But view the contrast! One pint of rum per day for each hand; and the master of the business cries out every day "Hard Times;" and well he may. We read of Bible, Missionary, and Cent Societies; but hear very little said about the formation of a Temperate Society. Let the your, men therefore form themselves into a society for the purpose of suppressing intemperance : let their motto be-

> "I protest that no more I'll get drunk, Nor lead such a wretched vile life.

And in the course of one year with prudence and frugality, they will be enabled to sing the song to the tune of "Hard Cash," instead of "Hard Times."

A MECHANIC.

Pembroke Village, Sept. 1819.

#### UNEXAMPLED PRODUCT.

It is asserted, that, on the Farm of Samuel The old song of "Hard Times" is sung with Cope, in Eastbradford, Chester County, Pennyields an uncommon supply both for man and beast. wheat, which produced 102 stalks, and all well Could not the tune of "Hard Times" be easily headed. One of the heads (the only one counted) Cash," if the following protest were strictly ad- well filled, the product must have been upwards of

HOURS.

Put in a piece of soft chalk, burnt, about the

### PETER PUFF, AUCTIONEER,

Dyer and Man Milliner-Mends Clocks, and makes Wigs; tunes Piano-Fortes, and cuts Corns; Man-midwife and Horse-shoer; Bellows-maker, and teacher of Psalmody; has a Diploma from Gretna Green, and another from the University of Aberdeen; attends at all times, to unite the votaries of Hymen and inoculate children, or bleed horses; rings pigs' noses, and the parish bells.

N. B .- Second-hand Coffins made and repaired PETER PUFF HAS FOR SALE,

AS FOLLOW :-

For some Popular Orators Halters. Hen-pecked Husbands Patience.

Old Maids Husbands of all sorts. Dandies Wives old & ugly, with money.

Married Persons Divorces.

A GOOD WIFE, with a Halter; warranted in every respect.

A Seat in St. George's Church, cheap; a long

time on hands. EWANTED IMMEDIATELY,

A Private Box at the Theatre—a High Price will be given.

[Irish Paper.

#### DUNSTABLE vs. LEGHORN.

Ye fair ones! don't at Fashion's law, For Leghorn honnels quit the straw ! Should native worth, in times so hard, Of its due wages be debarr'd? Then to the STRAW the preference give, And let your Country People live .- Lon. Pa.

The Editor of the American Farmer solicits information as to the date of the establishment of all the Agricultural Societies in the Union, their articles of constitution, proceedings, &c. &c. for publication in this paper.

PRINTED EVERY FRIDAY AT \$4 PER ANN.

#### FOR JOHN S. SKINNER, EDITOR,

At the corner of Market and Belvidere-streets,

BALTIMORE,

### BY JOSEPH ROBINSON,

Who does every description of Book, Pamphlet and Job

# PRINTING

In the best manner and on moderate terms-Orders by post, with proper directions, promptly attended to.

# AMERICAN

# bural economy, internal improvements, news, prices curreyt.

" O fortunatos nimium sua si bona norint "Agricolus." . . . . VIRG.

Vol. I.

# BALTIMORE, FRIDAY, OCTOBER 29, 1819.

Num. 31.

### AGRICULTURAL.

[Communicated for publication in the American Farmer.]

Saint Mary's Agricultural Society.

At a stated meeting of the Society at Leonard Town, on Wednesday, the 6th of October, 1819-

Ordered, That the Secretary transmit for publication in the "American Farmer," a copy of the Constitution of the Society-with the form of a Report of the condition of the Farm, or Tract of Land, &c. to be made by each member annuallypresented to the Society.

Teste,

E. J. MILLARD, Sec'ry.

Leonard Town, Md. Oct. 13, 1819. Sir.-In compliance with a resolution of the you the enclosed papers for publication.

> E. J. MILLARD. Very respectfully,

#### CONSTITUTION.

St. Mary's County Agricultural Society."

individual friendly to its objects, provided he shall tion. first have been nominated and elected by the ballots of two-thirds of the members present.

the last annual stated meeting of the society And shall become a part of this constitution. in case of vacancy by death, resignation, or reelected, to serve the remainder of the year.

at least seven members.

president, or in his absence, such person as the four regular meetings of this society. society shall elect protem, shall exercise the usual duties of that office All motions shall be addressed to him, and on all questions he shall collect and declare the votes. He shall have power to On the Advantages of using Cutting Boxes or eall special meetings of the society, by notice through the secretary at as many public places in rejection of the said society.

the assistant secretary, shall have in charge all the temperate latitudes; nay, instead of proceeding as without carts, we cannot manure land, and with-

the further order of the society.

ciety.

society.

#### THE ESSAY OF COL. ATHNS. FENWICK,

Cutting Benches.

standing committee, have power to correspond with and in no other section of country in the state in agricultural condition, will not be neglected. other societies or individuals on agricultural sub- which we live, is the want of provender more objects; and with the standing committee he shall servable, in the general and common condition of of manure we possess in such abundance, before attend to and regulate the pecuniary affairs of the cattle, horses, and sheep, than in the lower coun we can plough deep, before we can practise any of society, order expenditures to be made when ne-ties, particularly in the winter and spring. Strange the improvements recommended by the many discessary by their order on the treasurer, whose duty as it may appear, this deficiency arises not from tanguished farmers here and abroad, and, above it shall be to make a regular report hereof at the any fault in the climate, or from the want of fer-all of them in the past or present times, before we next regular meeting of the society thereafter, tile vallies, capable of being watered by streams, can adopt the system of Arator, the most valuawhich report shall be subject to the atification or or by reason of the unlitness of our soil for clo-ble book for us that ever was written, we must ver, timothy, saint foin, lucern, orchard grass, and provide out of the amount of forage on hand Art 6. The secretary and, by his direction, meadow grass, and every other kind, common to enough to feed well our team of horses and oxen;

hooks and papers of the society, and keep the same from difficulties and obstacles presented by nature in exact order; they shall also keep on regular in less favoured regions, our scarcity of provender files, all letters which shall be written by the arises solely from the too great facilities afforced president, or standing committee, or by themse ves, us by mild winters, wide woodland ranges, fertile by order of the committee, and at the stated re-uncultivated bottoms, which meander into the heart gular meetings of the society, submit the same for of this country, branching in all directions from the hundred creeks and rivalets, which fall into the Art. 7. The treasurer shall keep the accounts Potomac and Pautuxent rivers, and into the Chestated on the books of the society, and when call-apeake Bay, and from the almidance, also, and ed on, produce the same for inspection. But at extent of the salt marses, in many directions the last regular meeting of every year, and also fringing the outline of the main land of our pen-whenever his office may end, he shall produce a fair insula. To these great natural facilities, for pretegether with the Essay of Col. Fenwick this day and regularly stated account of all receipts, pay-serving our stock of every kind, must be added the ments, and expenditures, and deliver it, together excellence and superiority of our principal crops with the books and all other property of the soci- of Indian corn, for yielding grain and provender, ety in his hands, or which of right ought to be, to above all other crops. These blessings of Provihis successor in office, or to the order of the so-dence, affording in such profusion in former years, a sustenance for our domestic animals throughout Art. 8. Every member subscribing these ar-the year, together with the habits they have gene-Agricultural Society of this county, I transmit ticles shall contribute one dollar, or more, annual-rated, and not any unkindness in our chinate or ly, for a fund to be applied to the purposes of the soil, are the real cause of the unserable scanty pittance now provided for our stock of all kinds, Art. 9. The society shall have four regular Before our uplands, commonly called forest lands, yearly meetings, and at the following periods: on had been exhausted, when the common average Art. 1. The Society shall be styled "The the second Tuesday in January, on the first Wed-crop was ten and twelve bushels of wheat to the nesday in March court, on the first Wednesday in acre, and four and five barrels of corn, with verv Art. 2. The Society shall consist of every August court, and on the return day of the electionificant cultivation, on those lands, when the whole amount of live stock was smaller than it Art. 10. It shall be the duty of every mem-low is, which time is within the memory of some ber of this society, to keep an account of, and at of our inhabitants yet alive, as I have repeatedly Art. 3. The society shall have a president, a one of the regular meetings of the society, make learned from the most credible sources, there was secretary, an assistant secretary, a treasurer, a a report of his agricultural proceedings, agreeably some excuse, nay, some reason in our forefathers standing committee of seven, all of whom shall be to such form as may be adopted by a majority of not paying more attention to making a larger winelected by a majority of the members present, at the society, which form of report when adopted, ter provision of provender, than the corn crop afforded. But now that the unenclosed and un-Art. 11. The society shall have power to make improved lands also have become parched and moval out of the county, the same shall be supplied such rules and by-laws for their government, and arid heaths, and the sun, wind, rain, and frost, actby an election to be made at any stated meeting of the management of their affairs, as they shall ing on their naked surface, not to mention the the society, the person or persons then newly think proper; and to add to, alter or amend the overgreedy and self-destroying system of exterpresent constitution; provided, however, that no tion, and rack-rent practice on every spot of Art. 4. A quorum for business shall consist of addition, alteration, or amendment to this consti-ground, that had any strength, for near two centution shall be adopted, without the concurrence of turies, have reduced, ninety acres in the hundred Art 5. At all meetings of the society, the two-thirds of the members present, at one of the throughout the county, to poverty, incapable of remunerating the labours of the plough alone; we must of necessity exert ourselves, or suffer our stock to perish. Thank all bountiful heaven, the means of renovating our soil, and remedying the deficiencies in our forage and crops are ery where around us, and now that we begin to feel as It is well known that among the greatest defects sensibly, as we have long seen our folly, we have the county, as he shall direct. He shall, with the in southern farming, is the scarcity of provender, reason to hope that the means of amending our

But before we can avail ourselves of the sources

paring for the mixed course crops.

present crop of provender may be managed, to af- Peters states that a man and a boy can cut, with 1,300,000 dollars, and this, without calculating ford a much greater quantity of nourishment for Hotchkiss's cutter, in forty or fifty minutes, as the interest with compound interest, would give horses, and cattle, and sheep, than an equal much hay and more straw, as will serve six horses many millions; therefore if this saving alone could amount would afford, used in the wasteful manner, and fourteen or fifteen cows, for the day and night, be applied to improving and manuring our lands, the we have heretofore been accustomed to give it out This, he says. has been proved, by actual experi-increase in their value would be truly incalculable. to them. To effect this is so easy and cheap, that ment. Now let us calculate the value of the time every farmer of any condition has it in his power, employed by a man and boy, in cutting straw or Experience has proved that corn tops and shucks, fodder for 6 horses and 14 head of cows. It has wheat, rye, and oat straw, corn blades and hay, cut been found to be 50 minutes by actual experiment, up with a cutting box or eutting bench, and given and the saving per horse per day 10 lbs. and upto horses, or cattle, or sheep, in troughs, will go a wards, 20 head will give then a saving of 200 lbs. great deal farther, than when they are thrown in of hay by 50 minutes work of a man and hoy, with racks or on the ground, long and uncut, as gather- Hotchkiss's cutter. And on the supposition, that ed, and eaten in that way. The saving, by these all farmers cannot get the best entting boxes, and means, is so great, that it is worthy of the attendepend on cutting benches and reaps books; these tion of even such among us, who have the greatest I am sure, from what I have seen of them, will abundance of provender, and to those, who in the do the same work at all events in two hours, and usual way of feeding, would not have enough, it for a man and a boy to save 200 pounds of fodder would be unpardonable negligence not to adopt in two hours, is surely more worth than any other the use of them. Mr. Jacob Gibson, of Sharp's common winter work, or indeed summer work Island, was the first man, whom I remember to either, that we do on our farms Is then the force have recommended cutting corn tops, to the people of habit on ourselves, or the reluctance of an of Maryland. It was in a year of great scarcity, overseer or slave to do this work regularly every and for my own part, I remember I did not make day, during the feeding season to stop us, who feed a third of my common erop of provender; but in that number of horses and cattle from saving 200 mendation, I actually managed to carry my stock man and boy If such obstacles can overcome our blades, and every kind of provender I used.

ment of Mr. Isaac C. Jones is given in feeding who think fit have therefore an opportunity of looksaving of more than ten pounds of hay. In order River, has been a bad year and erops must thereto form some idea of the importance of such a saving to this county, I will from these data make an estimate as nearly exact, as my means will enable me, of the value of this saving to our population, of giving the amount and value of the hay or 1000 wt. chop rye straw, at 50 cts. fodder saved in pounds weight and money. From the census, we know the population of this county was a few hundred over twelve thousand inhabitants; allowing therefore one-third as many horses as inhabitants, which I guess there must surely be. then there are four thousand horses, at the rate of 365 days feed of hay of 5 lbs. per day is 1,825 thirteen hundred pounds of hay saved per month The saving in feeding 4000 for every four. horses, is 1,300,000 lbs. per month. This hay at fifty cents per cwt. is a saving of 6,500 dollars 18 bushels of corn at 60 cts. is, allowing halfper month; and as we are obliged to feed our horses at least five months in the year, this saving in the article of horse food for this county alone. is 32,500 doltars. And I think we may fairly to lbs hay for 365 days at \$1 per cwt. is . estimate that the saving in food of the cattle and 2 gallons corn for 365 days makes 73 bushels she p, would be more than that; but supposing it only the same in amount, here is a savies of the Same

in the first place, then, leads us to reflect on the the amount of provender saved in feeding the hor- who live in that upper half, the cutting box will best means in our power of increasing our forage, ses during 5 months is 6.5000,000 lbs., and the prove most valuable, and to the other half, as suwithout at present taking into view, how we can same allowed for eattle and sheep, makes the whole perabundance is no where to be found, and as the better employ our team another year, after we saving of hay 13,000,000 lbs. or 6500 tons of pro- next year may be their turn to suffer by the seahave secured our present crops on hand, in pre-vender. This amount allowing a horse to consume sons, it will be found also very serviceable. 2 tons of hay per year, would support 3250 horses, I will now content myself with showing how the that is almost double our present number. Judge would in 20 years amount to the enormous sum of consequence of adopting Mr. Gibson's recom- lbs. of fodder every day by two hour's work of a Mode of planting, distance. &c. through the winter, with only a third of a crop, intentions, we must indeed be wofully wanting in as well as I had commonly done before with a whole crop without cutting. But I extended his recom- in every manly virtue. Mr E. J. Millard and Mode of covering seed. mendation, and cut up corn shucks, and straw and Mr. B. Gough, who each keep a horse in town, No of cart loads of manure deposited in the corn field, have furnished themselves with cutting benches, In the fourth volume of the Memoirs of the and find as they tell me a saving of provender, How many hands and carts, and time consumed in Pennsylvania Agricultural Society, the experi-which justifies the foregoing calculations.\* Those four horses with cut hay, and his saving was found ing at those benches, and examining the kind and from his calculation, to be thirteen hundred pounds quantity they perform. And any carpenter can fit up per month, which for one horse would have been a one if he has the materials, in one hour. This year saving of three hundred and twenty-five pounds to that part of the county, which lies above a line Detached work done-how much and what kind. per month, and in each day's feed of one horse, a drawn due north from Leonard-Town to Patuxent

> A calculation of the expense of feeding one horse 12 months on chop alone on chop-hay and corn, and on corn and hay, to wit: ON CHOP ALONE. \$5 00 gallon chop rye per day, for 365 days, allowing 10 gailons to the bushel, is 36 bushels at 50 \$23 60 ON CHOP-HAY AND CORN. 500 lbs. ent rye straw at 50 cts. gallon chop ryo per day for 365 days, is 18 bushels, at 50 cts. is, gallou per day, CORN AND HAY.

at 60 cts. is,

out ploughs, we cannot cultivate it. Our business dollars in the year's feeding of our stock. And fore be there shorter than usual. Therefore to all

Note.—A saving of 65,000 dollars a year

Form of a Report of the condition of the Farm, or Tract of Land, occupied by

1	Whole amount of acres contained in the tract,	(	000
ı	amount inclosed,	. (	000
ı	amount of woodland inclosed,	. (	000
ŀ	Number of divisions-No. of acres in each, -		
١	Number of acres in wheat,		
l	" " ip corn,		
1	" in tobacco,		
1	" " in clover or grass and kind, -		
ı	" in common pasture, -		
1	No. of hands-men, women, boys & girls,		
1	No. of ploughs run-No of ploughs on the land,		
	and kind used, and cost,		
١	No. of Harrows & kind-No. of Rollers & kind,		
: !			
,	Amount and manner of work done.		
	Preparation for corn-No. and kind of ploughin		ć
•	lea i ac alamain lineara car	gs,	ζĈ
7	Hode of planting, distance, &c.		
1	No. of ploughings, &c. after planting.		
	No. of ploughings, &c. after planting. Preparation for tobacco—No. & kind of ploughi Size and mode of making plant beds, and time.	ng,	zζ
,	Size and mode of making plant beds, and time.		

No. of ploughings, &c. after planting. Preparation for wheat—No. and kind of ploughings, &c. Size of beds of lands, kind of water furrows and head

What kind of Manure.

hauling the above quantity of manure on each field named.

No. of working horses-mules-oxen-each how fea. Hogs, No. -how fed-Sheep, No. -how fed. Cattle, No. -how fed and sheltered.

No. of apple trees—peach do.

Fencing, ditching, clearing, wood cutting, building, &c. Small crops, amount of Potatocs, turnips, flax, &c. &c.

# Internal Improvement.

FROM NILES'S WEERLY REGISTER.

QUALITIES OF STILES'S IMPROVED ROTARY STEAM ENGINE.

1st. By its simplicity and compactness, a Rotary Steam Engine, of 12 to 18 horse power, will require but a space, (say for engine, boiler, and all the steam and water apparatus,) 12 feet square; an engine of 60

horse power, 18 feet long by 12 wide.
2d. The pumps to supply hot and cold water, the gearing that work the sa e, and the pipes that conduct 18 25 the water and steam, being all much more simple, than those attached to other engines, and being all comprised in one view by the engineer, are, of course, on much less liable to be neglected or to get out of order; and if any thing should be deranged, be can much sooner discover where the defect may be-as, whilst tanding heside the engine, he is within arm's length of \$40 70 all the other machinery

3d When compared with the engines of Bolton and Watts, Robt. Fulton, and Oliver Eva-s, the Rotary Engine appears incredibly simple, and to all, but the mind of a michanic, firbids the idea that a machine with so few earts, none of which are barry to get out \$50 00 of order, should operate, when such a multiplicity of pa to a canae drian we at of intellinery liable to be rendered useless by the slightest mism nagement, or trivial accident,) are required to produce a similar effect by the other engines.

4th. The Rotary Steam Engine requiring not or half the steam that the others do, its boiler is propotionably smaller, by which the consumption of fuel

reduced to less than one half.

5th. The reduced size and extreme lightness of the Rotary Steam Engine, not only gives it a great prefe once for vessels, that navigate either inland waters the open ocean, but enables the factor to put it up together, not only avoiding the probability of misla ing or losing any of the small articles, but (whethe transported by land or water is prepared, on its a:rival (being previously packed) to be put in operation; whilst other inventions are composed of so many, and such various parts, the loss of the smallest of which, would render the whole machine out of order, and none but a person who has served at the business, can erect or work it; and requires to be sent from the factory so disjointed, as to be totally an x-plicable to all but the engineer. Again, if any part of the other engines should be broken, it word require a mechanist, with a full set of tools, to repair it : but should any part of the Rotary Steam Engine be broken, it must be in that department where a common blacksmith, or a person of any mechanical mind, provided with a hammer, cold-chi-el and file, in a few minutes could repair the damage.

6th. Many engines erected in the United States, have semained long idle : some of which have been entirely destroyed, by the engineer being unwilling to remain. or demanding exorbitant wages, from a conviction that the work could not proceed without him; or from the proprietor, ignerant of the qualities requisite for an engineer, employing a person incompetent to the task; but so very few and simple are the parts of the Rotary Engine, that no person of ordinary abilities, can view them a second time, without heing fully in formed how they operate, and how to adjust any part

deranged.

7th. The motion being directly rotary, there can be no fear, on starting the engine, of breaking any thing by a too sudden impulse, which is often the case with other engines, whose erank motion, in mills as well as steam boats, tends to jur and wreck the works atta hed to them

8th. Often, in the other inventions, hoilers have been bursted, and persons destroyed, by the ignorance or neglect of the engineer; in the Rotary Steam Engine. a joining the cock that lets the steam on the engine a safety-valve is placed, on which a weight is hung, proportioned to the pressure to be borne by the boiler and whenever the steam is over that pressure, it will escape without the singhtest re-action on the boiler.

9th. The numerous small parts of the other inventions, cannot be expected to last more than six or seven yours, without considerable repairs; but there is no part of the Rotary Engine, that will not last for a generation, if preserved from rust, and properly

Worked.

toth. Many of the other inventions require to be made expressly for the machinery they are to propel, or equire great additional works to attach them to any other; but the Rotary Engine made for a saw. a sugar, or a corn mill, can be applied to the one, the other, or all of them, at once; and at the same time that it is propelling at one and of the shaft, either of thise mills, the proprietor may have any other machinery attached to the opposite end, without the least d riment; and an engine made for a mill, can be applied to a steam boat without the least eiteration.

tth. Whenever the improper feeding of the mill, or some temperary derangement in the works, would reader it dangerous to overcome the same-the Rulary on more steam; but other inventions, aided by a ponderons fly or balance wheel, are, at such times, forced beyond their power, often destroing the most co-ential naits of the machiners, leaving the remainder a useress wreck to these, where remoteness from a facthey deprives them of immediate aid

the great delites by that exist on many sugar plan tations, of procuring a sufficiency of fresh water. I the seam boiler, and sugar making is by this edge of

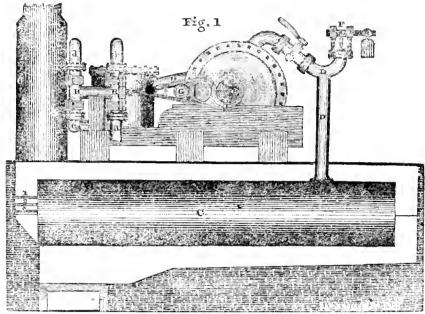
ring but very little water, the pump, which draws id the sugar maker, unless the well be more than 33 orks with the friction of only one piston, although

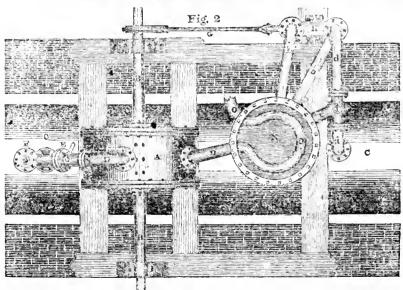
nerforms four distinct duties, can be applied altothe same end of the shaft, be applied to a common fifting pump, which can supply all the water required. the depth of the well; the gearing would be very with or without steam engines.

In engine holler, and all the steam apparatus ree vater from the well, can supply both the boiler quisite (for a boat) for 20 horse power, would not weigh 7000 pounds; and one of 60 horse, including et deep, in which the eccentric motion G, which the weight of water in the boiler, &c. would not exceed 12 tons weight.

The subscriber has at his factory in this city, contwher to the steam apparatus, and a crank motion on plete sets of paterns for engines, from 8 to 75 horse power, and can execute any orders for steam boats, mills, &c. in the space of from six weeks to four the expense of such a lifting pump must depend on months; as also orders for sugar, corn, or saw mills,

JOHN S. STILES





Explanation of Stiles's Improved Rivery Steam Engine, with a Harizontal Sugar Mill attached.

then goes off into the condenser, or hot water chest, boiler bursting. through the pipe O, and having heated the water, then passes into the open air, or where the proprietor pump 11, which performs four different daties, viz:

b The steam shaft passes through the cylinder and well, the which, and receives its motion from the latter.

Use he boiler communicates the steam to the engage water chest N brough the tipe D, in which pipe are fixed the steam and plan of the pumps, overcome; for the boiler, re-book E, by which the steam is let on or shut off; and water class, and

A The engine (in Fig. 1. . , and 3 is a cylinder con-) the safety-valve F, which permits the steam, whenever taining a proportioned steam wheel to which are at- it raises above the required pressure, to escape with-Steam Engine will stop itself, until the engineer I to lacked valves, which valves are operated on by the out the slightest results up on the boiler, and thereby steam, and give a rotary motion to the shaft, the steam relieving the mind from every apprehension of the

G The eccentric motion on the shaft B, works the

1st. By the pape a, it draws the cold water from the

Ed. By the pipe b, it injects the same into the hot

"I By the page o, it draws the hot water from the hot

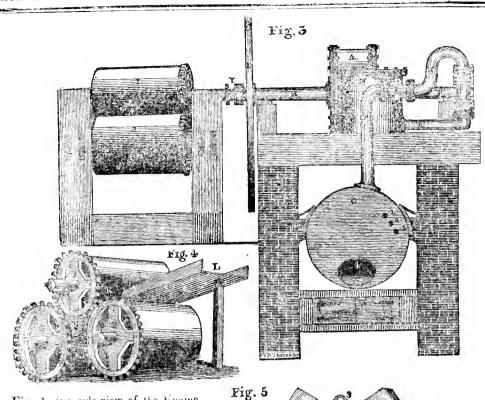


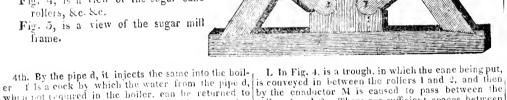
Fig. 1, is a side view of the Engine and Steam apparatus.

Fig. 2, is a top view, or ground plan of the same.

Fig. 3, is an end view of the Engine, &c &c. with a sugar mill.

Fig. 4, is a view of the sugar cane rollers, &c. &c.

Fig. 5, is a view of the sugar mill frame.



the engine, or ungearing the pumps, so that any quantity of water may be lifted out of the well for any other purpose than supplying the boiler.

1 The coupling box connects the shaft of the engine

to that of the sugar mill.

three rollers, : two are placed horizontally and grind the cane line or coarse. S parallel, and the other is placed in the upper cavity, brasses in which the rollers work produced by the two first, viz; 1, the driving roller, receiving its motion from the engine, & communicating the same to 2 and 3 by the cog wheels, is 22 inches diameter, and 36 inches long; 2 and 3 are 26 inches doors. 6 is the chimney. diameter, and 36 inches long.

FROM THE NEW YORK COLUMBIAN.

An account of the very important discovery lately made by professor Thenard of the College of France; being a method to charge water with oxygen, equal to nearly seven hundred times its own volume; with the history of the properties of water so enormously oxygenated-in a letter from Major John M O'l' comor to John Watts, M. D.; and com unreated to Samuel L. Mitchill for the society for Internal Improvement.

the vatunderneath.

P In Fig. 3, is a small wheel or lever, by which to start the engine, when newly packed.

Fig. 5. The rule joint 1 is for the purpose of per-K The sugar mill p Tig. 3 and 4) is composed of mitting the wedges 2 to raise or lower the rollers, to grind the cane fine or coarse. S are the bearings and

> Fig. 1 and 3-1, 2, and 3 are the guage cocks, hy which to ascertain the quantity of water in the boiler t is a fire fine through the boiler. 5 are the furuace

" Paris, July 11th 1819.

especially in such as are even very remotely con- dro chlorate, and converted into pro-chlorate of nected with your profession, I cannot deny myself silver, which being perfectly instable in water, is the pleasure of communicating to you a discovery easily separated from the mixture of liquid, nit.ic, in chymistry of a very curious and extraordinary nature.

and author of perhaps the best treatise now extant feetly free from extraneous bodies, and cristallized on Elementary and Practical Chemistry, has just by frigorific compositions. The water and oxygen discovered that water is capable of absorbing or is thus obtained pure; for during all the composi-

retaining in suspension a quantity of oxygen, nearly equal to its capacity of saturation of the gas acid fluoric; that is, nearly equal to 700 times its own volume. The water thus saturated with oxygen, possesses very extraordinary qualities, chymical and philosophical. The origin of this discovery you will deduce from the process of obtaining the new body .-- I will attempt to describe it, from recollection of the lecture and experiments of Mr. Thenard, delivered at the College of France a few days ago. I believe the memoir has not yet appeared in print.

Take a large tube, well luted exteriorly, fill it with baryte (protoxide of barium,) establish it across a furnace, so that its two extremities shall extend beyond the furnace; put one extremity in communication with the pneumatic table, and a reversed recipient filled with water, by means of a curved tube; and let the other extremity communicate with bladders filled with oxygen, or with vessels from whence is constantly disengaging oxygen in sufficient quantities, as from the pre-oxide of manganese, &c. The protoxide of bari m being red hot, the bladders are gradually compressed, or the reduction of the per-oxide of manganese is begun; the whole of the protoxide is thus converted into dent oxyde of barium, which is taken from the tube and deposited in a recipient convaining a given quantity of water. A current of gas acid, hydro chloric (commonly called acid muriatic) is now forced to pass into the recipient, and gives birth to a new body, hydro chlorate of pro oxide of barium; acids, as you well know, do not combine with the dentoxide of barium; they always reduce it to protoxide. The oxygen thus disengaged from the dentoxide does not escape, but in consequence of the presence of the salt, remains in suspension or combination, (if you please) with the soluble hydro chlorate and water. The hydro chlorate is next converted into sulphate of baryte, y pouring into the recipient a proper quantity of sulphuric acid; as the affinity of baryte (protoxide) is greater for the sulphuric acid than for any other, and as the sulphate of baryte is insoluble, this dewhen not required in the holler, can be returned to by the conductor M is caused to pass between the composition and re-composition is readily effected, when not water chest by the pipe c, without stopping rollers 1 and 3. There are sufficient spaces between and the sulphate easily separated from the water by the conductor and the rollers, for the juice to pass into filtration. The water now contains only the acid hydro chloric and oxygen, for during the latter operation there is no disengagement of oxygen. This composition and de-composition of hydro chlorate and production of sulphate of baryte may be repeated even 30 or 40 times, till the water is perfectly saturated with oxygen. The quantities of the respective bodies being determined, that of the oxygen in suspension or combination with the liquid acid muriatic, you can readily discover from the laws of the composition of salts and oxygen. The only difficulty is to separate the acid hydro chloric from the water and oxygen. This is effected by My Dear Sir-Knowing the interest that you the addition of a suitable quantity of nitrate of siltake in all the discoveries and improvements, more ver, which is instantly decomposed by the acid byacid and oxygen, mw remaining in the recipient. The nitric acid is text separated from the water Mr. Thenard, Professor of Chymistry at the and oxygen by an oxyde capable of forming an in-College of France and at the Polytechnick school, soluble sub-nitrate, or by any excess of potash ner-

gas has been disengaged. In this state, the water gen When left long exposed to the air, it loses contains about 120 or 130 times its volume of a great portion of its oxygen.

affinity of the sulphuric acid for the aqueous fluid; reducing this singular compound. the per-nxygenated water is thus concentrated, unately disengaged by ebullition. Probably the ex- ablest chymists of the age. cessive cold produced under the recipient, facilitates the concentration of the new compound, by destroying its tension.

&c. and by all metals and oxides. In the decompositions no new body is formed, the oxygen is expelled with loud explosion, and the animal, metallic, or oxided substance is withdrawn in the same state that it was introduced into the base. It would be extremely dangerous to operate upon a con iderable quantity at a time, since its expansive force resembles that of gun-powder. The simple between this important organ and the stomach, cause sulphurous, &c.

The action of light and radiating caloric, is nu-

The next process is to concentrate the new on the affinity of water for air and oxygen, which compound, by separating it from as great a quan-they found did not exceed 25 th part of its volume of ed by means of the pauematic pump. The vase temperature, and under the ordinary pressure of the containing the per-oxygenated water is placed un-latinosphere, and to be totally null in vacuum, are der the recipient of the pump, on a stand in the only true in the simple contact of water with air middle of a broad vessel, containing very concen- or oxygen. The presence of an acid entirely

the per-oxygenated water is thus concentrated, unbil it contains 600 times its volume of oxygen gas, and curiosity of our American chymists and philowould fall down in violent spasms; the fit seldom lasted above a few minutes. The horse, being of scarcely and its specific gravity is greater by one half than sophers. I invite you to communicate the facts to any value, was destroyed, and, upon examining the that of water. The extraordinary diminution of the New York Institute, and to your learned brain, about six ounces of water were found in its the tension of the per-oxygenated water, so oppositioneds .- The narrow limits of a letter preclude ventricles or cavities. In the treatment of this comsite to all other combinations of water and gas; the from entering into further details.—The facts the latter, however great its affinity for the water, here stated I was my elf a witness to. Mr. The
left plaint, Mr. Blainc recommends diureties and mercury, with a view t procure an absorption of the accumulation of the procure and plaint, Mr. Blainc recommends diureties and mercury, with a view t procure an absorption of the accumulation.

The facts with a view t procure an absorption of the accumulation of the procure and plaint, Mr. Blainc recommends diureties and mercury, with a view t procure an absorption of the accumulation of the procure and plaint, Mr. Blainc recommends diureties and mercury, with a view t procure an absorption of the accumulation of the procure and plaint, Mr. Blainc recommends diureties and mercury, with a view t procure an absorption of the accumulation of the procure and plaint, Mr. Blainc recommends diureties and mercury, with a view t procure an absorption of the accumulation of the procure and plaint, Mr. Blainc recommends diureties and mercury, with a view t procure an absorption of the accumulation of the procure and plaint, Mr. Blainc recommends diureties and mercury, with a view t procure an absorption of the accumulation of the procure and plaint, Mr. Blainc recommends diureties and mercury, with a view t procure and absorption of the accumulation of the procure and the procur disengaging itself immediately in vacuum, or when hard made all the experiments, in our presence at a strong nicronnal purgative, assisted by a blister to in ebullition, is not the least remarkable part of the college of Fana, with that ability and zeal for the head, and a rowel between the branches of the this new body; its oxygen is, however, immediately which he is so highly distinguished among the under Jaw, may remove the disorder; but at any later

merely destroy the cuticle of the part. Doubtless has denominated it sulphant, by a new termination

## Extracts from a Compendious Dictionary of the Veterinary Art.

[Continued from No. 29-p, 230.]

Brain. The intimate though invisible connexion Caddiness, and Megrims. non metallic bodies have no effect upon it at the or lits functions to be often disturbed both in horses and other animals; thus, in cases of indigestion, the brain brazy; they describe also a dry and a costive brazy, is the part that appears to be principally affected; it is dinary temperature; but the case is very different other animals; must include a subsected; it is is the part that appears to be principally affected; it is with many of them, such as curbon, sulphur, &c. sometime, however, diseased independently of the urine, caused by feeding too freely on succulent dinat an elevated temperature; explosion ensued, ac- stomach; and the affections to which it is most hable retie food, and resting too long in their lairs in the companied by he formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of gas, acid, carbonic, are inflammation and degree with the formation of branes of the eye, and strong pulsation of the tempo ral arteries; the animal often becomes quite furious, gatory on this new body and most probably the so that it is dangerous during the paroxysm for any one All diurche medicines are of course highly im roper loadstone is also without influence. We must, becomes quiet, and sometimes lies down apparently in this complaint. The ensire brany is said to be must, becomes quiet, and sometimes lies down apparently in produced by caum; hard dry food, drinking end-oxydes, and animal organic substances is the effect of electrical actions, or of some other fluid at the organic and the substances of electrical actions, or of some other fluid at the organic and the substances are first. In this way the planet of the organic and the complaint. The costice brany is said to be organic and the substances of the relationship of the organic and the substances of the organic and the substances of the organic and the substances of the organic and the substances of the organic and the substances of the organic and of electrical actions, or of some other fluid at pre- animal sometimes continues one, two, or even three sent unknown.—It is without action on vegetable days; when suppuration takes place in the brain, that is dose of salts, about two or three colors, and combines with no oxyde to form a salt; has suffering. I have often had occasion to remark, that mail cases of interval is fundamental to the suffering of the colors, and bleeding are the proper to the colors, and therefore, be regarded as an acid, since that mail cases of interval is fundamental to the suffering of the colors, and provides. The dry braxy appears to be an intiaminatory affection, particularly the bowels, for which it is desirtute of every characteristic of an acid, early bleeding is the grand, the essential remedy. In bleeding, castor-oil, and giveters are suitable remedies.

tions and reductions, no sensible quantities of the except the common acidifying principle—the oxy-this ease, however, it is, if possible, more particularly necessary; and the most ready way of obtaining a speedy and sufficient evacuation is by opening both oxygen; its density is greatly increased; and what is remarkable, its tension is diminished.

Thus it is found that the admirable experiments the animal becomes perfectly quiet, or even faint. If made by baron Humboldt and Guy Lussac, in 1805, this cannot be accomplished, both jugular veins should not the affinity of water for air and oxygen, which be opened, and the bleeding continued by tying a temporal arteries, and allowing them to bleed until cord round the neck so tight as to keep up a constant flow of blood from both orifices; but the cord should tity of the aqueous fluid, as possible; this is effect the latter, and 30th of the former, at the common never be a plied until the veins have been opened. (See Liceding.) To prevent a recurrence of the discase, a dose of physic should be given; and it will be necessary for sometime afterwards to feed him rather sparingly, principally with bran mashes or green food.

Drepry of the Brain does not often occur to horses or trated sulphuric acid; and the pump is put into changes the affinity. I forgot to mention, that cows, but sheep appear to be more liable to the disease motion, until the mercury of the permittee or mawhen the decomposition of the per-oxygenated wanometer of the pneumatic machine, is within two
when the decomposition of the pre-oxygenated wathan other quadrupeds. The symptoms of the disorder in horses are variable. In one case there was a
considerable degree of duliness and heaviness about or three millimitres (about 1 line) of the level. oxyde, or organic substance, the addition of an the head, the pulse not much affected, loss of appetite : To produce so great a rarefaction, of course, the acid suddenly arrests the reduction, and gives sta- the animal appeared as if suffering much pain in the very best machine must be used. The greater part bility to the new compound. Hence it appears, of the water is thus evaporated, and expelled that only those bodies that are attracted to the uestions, and death. In another case, where probably the through the valves, or absorbed by the powerful gative pole of the voltaic battery, are capable of water had accumulated very gradually in the cavities educing this singular compound.

Of the brain, the horse appeared to be free from pain, except when put suddenly into brisk motion, when he lest chymists of the age.

Her. Guy Lussac has lately discovered that the of this disease, which sometimes happen to sheep; the reduction of the new compound, by reduction of the per oxyde of mangenese by the stroying its tension.

Its action upon the animal economy, is very was hitherto supposed; but gives birth to a new animal culter, which is considered to be incuratively and the supposed of mangenese by the first consists, which is considered to be incuratively as the other, which is most common, arises from animal culter of the per oxyde of mangenese by the first consists, which is considered to be incuratively as the other, which is most common, arises from animal culter of the per oxyde of mangenese by the first consists, which is considered to be incuratively as the other, which is most common, arises from animal culter of the per oxyde of mangenese by the first consists, which is considered to be incuratively as the other, which is most common, arises from animal culter of the per oxyde of mangenese by the first consists, which is considered to be incuratively as the performance of the per oxyde of mangenese by the first consists, which is considered to be incuratively as the performance of the per oxyde of mangenese by the first consists, which is considered to be incuratively as the performance of the perf great; the smallest drop instantly whitens the skin, raises a huge blister, and produces a severe quantity of its acidifying principle to sulphuric brain, on which, however, if not prevented, it acts momentary pain. In this respect it somewhat resembles the gas acid fluoric; but is not so dreadful the sulphuric. He has proposed to sulphuric. He has proposed to call it by bridge sulfure, but Professor Theory I. The proposed to the disease shows evident and decisive the disease shows evident and decisive the disease shows evident and decisive the disease shows evident and decisive the disease shows evident and decisive the disease shows evident and decisive the disease shows evident and decisive the disease shows evident and the disease the decision of the disease the decision of the disease the decision of the disease that the decision of the disease that the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of the decision of and inevitable a poison as this latter; it seems to to call it by hydro sulfuric; but Professor Thenard symptoms. It frequently starts, looks giddy and confired, as if at a loss what to do. It retires from the if taken interiorly, it might be attended with serious in ant of the generical word, agreeably to the generical word, agreeably to the generical word, agreeably to the generical word agreeab consequences. It is, however, instantly decom- nius of the chymnol nomenclature. I forgot how the pressure of the brain have been proposed, and, posed, and the oxygen totally disengaged by the far that great chyn ist and philosopher, Guy Lussac, when put in practice by patient and skilful hands, most substances of the organs of the human body, such participated in the discovery of his colleague Mr of them have succeeded; but a method has been found of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforating the cyst, which has succeeded perfectly in the name of perforations and perfectly in the name of perforations and perfectly in the name of perfectly in the name of perforations and perfectly in the name of perfectly in the name of perforations and perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of perfectly in the name of per in numberless instances: this operation consists in "thrusting a piece of wire or a knitting-needle up the nostrils, and forcing it through the skall into the brain." (A Treatise on Sheep, by Sir George Markenzie.) The brain is subject to other diseases, which do not appear upon dissection, to depend upon any alteration in its structure, upon inflammation, or upon an accumulation of water in its cavities. Sec Epitersy,

BRAXY OF SICKNESS. A complaint very common among sheep, which, in Scotland, is termed watery ing them from their lairs or pens early in the morning, in order to encourage them to pass their urine. dictiched with rain or chilled by a shower of show. In this kind o braxy, a dose of salts, about two or during violent exercion, as in racing. According to Six hondred thousand pounds. The hardware Mr. Blaine, it depends upon a rupture of the suspensory ligament of the leg. This accident, t believe, occurs but seldom, and the injury thus named, is more occurs but seldom, and the injury thus named, is more occurs but seldom, and the injury thus named, is more of the dependent of the flavored translated thousand results of the flavored translated thousand results of the flavored translated thousand results of the flavored translated thousand results of the flavored translated thousand results of the flavored translated thousand results of the flavored translated thousand results of the flavored translated thousand results of the flavored translated thousand results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the flavored translated the results of the r occurs our senson, and the injury mas named, is made two hundred thousand pounds; of which one-third ses, who employ wheel carriages, that they should tendon or back sinew. (See Strain.) When the liga-ment is ruptured, it may be known by the increased made to sustain any weight, being bent nearly to the which is only two-thirds of the market price ose, which seems to be a little in opposition to ground. The animal, however, retains the power of We will only add, that the same year's amount of the market price ose, which seems to be a little in opposition to moving the power of the power of the will only add, that the same year's amount of the power of the power of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the market price of the which is only two-thirds of the w moving the pastern, which would not be the case, if the tendon were ruptured. A perfect cure can hardly be expected in this case, though the horse may be rendered serviceable for the purposes of agriculture. The ends of the ruptured ligament are to be brought as near to each other as can be, in which situation they are to be kept, until a re-union has taken place. There will be some difficulty in accomplishing this; a high heeled shoe would perhaps contribute matewei, with a solution of acetate of lead in cold water. shad be gradually reduced.

BROKEN KNEES After washing the wound carefully with warm water, apply a poultice if the injury is considerable, and renew it morning and evening, until the swelling and inflammation of the knee have sub

Red precipitate finely powdered, half an ounce.-Mix.

Should the new flesh rise above the surface, sprinkle water; this in two or three days will remove any inflammation or swelling the blow may have produced; to hasten the growth of hair on the part.

[ To be continued. ] B 4547 255 Co.

FOR THE AMERICAN FARMER.

### DOMESTIC INDUSTRY .... No. V.

Baltimore, October 16, 1819.

Wales, contains thirty-eight and a half millions the same proportion to fifteen millions, that one hun-hand upon a level surface, it will be presently seen of acres; and of these about eleven and a half dred and eighty-nine thousand, seven hundred and that it runs to one side, and if there is room and are in a state of cultivation; that is, little more seventy-seven does to four hundred and twentythan one third the extent of Pennsylvania. Here seven thousand; hence it appears, that our imwe find a population of ten millions, not more than portations of British cotton goods alone, give emfeur of which are employed in agriculture. It ap- ployment to one hundred and eighty-nine thousand, struggle is maintained to draw them forward, which estimated from the following facts.

m as, that fifteen millions of pounds sterling worth of cotton goods were manufactured in Eng. matters, with which he has no concern. He is as wheelwrights say the wheel is stronger, that it easts Land, from seven millions worth of cotton-wool; deeply interested in them, as any other in the comthe dirt better off the body; and that they make
a that the manufacturing wages thereon, amountminity. If the country be impoverished, he must
be up six millions four hundred thousand pounds, suffer with the rest. Without capital, he cannot level that it does not take the motion sideways. But a. employed four hundred and twenty-seven thou-carry on his business any more than the merchant; they are not aware that the making of the top line sand persons.

valued at six millions sterling; and the articles selling in our ports at fifty cents per bushel manufactured from it, at eighteen millions. The

BREAKING DOWN. An accident that often happens in unalacturing wages amounted to mue millions,

cotton trade between this country and England mals which drag them, as well as our interest in both In 1810, the quantity of cotton imported into the carriage and the creatures, requires that we England from the United States, was fifty-five should look a little to the matter. a migh nected shoe would perhaps which must be emmillions, one hundred and ninety-four thousand, six The wheels of all the carriages I see, except ployed on the occasion, should be kept constantly hundred and sixteen pounds. And the average the wheel barrow, are made with the spokes obliqueprice that season was about sixteen cents per ly fixed in the hub to the fellow, or from the centre After some time, when it may reasonably be presumed pound; consequently the amount was about eight to the circumference of the wheel, by which means that a re-union has taken place, the heels of the shoe pound; millions, eight hundred and fifty-one thousand, one a hollow is made from the rim to the hub, and this hundred and thirty-eight dollars. Now the amount is called dishing. The consequence is that the of cotton goods imported from England the same wheel being made a section of a cone or a sugar year, was six millions, six hundred and sixty-seven loaf, never rolled directly forward, but declines the swelling and inflammation of the knee have sue the swelling and inflammation of the knee have sue the swelling and inflammation of the knee have sue thousand, six hundred and eight pounds stated in a strait line against this tendency. Lieuce such as a solution of sulphate of copper (blue vitriol.) When the wound does not appear to heal under this treatment, try the does not appear to heal under this treatment, try the following ointment:

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fol remain a balance of thirty-five millions, five hundred and fixed straight or perpendicular from the bub to the on it some finely powdered burnt alum. In slight eighty-two dollars, in favour of England. Such rim. on it some many powdered barns and it was the is the result of selling raw materials, and bringing. Let any one attempt to roll a sugar loaf, he will part several times a day with a cold solution of acetate the articles manufactured from them. Such are immediately see that instead of going forward, if of lead (sugar of lead,) about one ounce to a quart of the means by which England supports her extrava- left to itself, it will revolve in a circle; and if he gance, and makes every nation, that deals with has a mind to make it go straight forward, he must nammation or sweiting the brown may have produced a surface and her, tributary. Such she has made Spain and add a force proportioned to the weight to drag it Portugal; and such she will make some others, if forward. It will be the same with every section of they have done. Again, we have seen that lifteen will still attempt when moved to form a circle. If millions worth of manufactured cotton goods employ-the circumference of a dished wheel was extended ed four hundred and twenty-seven thousand persons in parallel lines agreeably to its inclination, it for a year; and that in one year we have imported would end in a point, and make a cone, the shape MR. SKINNER,—From Spain, let us now turn six millions, six hundred and sixty-seven thousand, of the loaf of sugar. Take then a carriage wheelto England, that little spot, which, including six hundred and eight pounds sterling, which bears formed as they are at present, and roll it from the peacs, however, that in the year 1810, the amount seven hundred and seventy-seven persons in Eng- when the weight is considerable can only be done of profits arising from farming, was twenty-nine land!! And cost us, over and above all the cot-by a great power. In a wagan carrying a ton or and a half millions of pounds sterling, or one hundred ton she buys from us, thirty-five millions, five hundred, it will require an addictional horse. But dred and thirty-one millions of dollars. Of the dred and ninety-nine thousand, five hundred and other inconveniences follow; the roads are more remaing six millions, at least fire-sixths live by eighty-two dollars per annum. If a like view broken, the carriage shaken, &c. Indeed, I sometrade and manufactures; and the effects produced were taken of the woollen, hardware, earthenware, times think the great dishing of the wheels may be at home and abroad by the latter, may be partly and class, we would be so far from being surprised known at a distance by the noise and dust that is at the searcity of money amongst us, that the only raised. In the year 1800, it appears from public docu- wonder would be, how any was left.

and surely he cannot expect a profitable foreign flat will never correct the effect of the figure of the The wool manufactured the same year, was market, when wheat is coming from Europe, and wheel. Let then the matter be tried, and as far I am

Yours, &c.

### Occasional Extracts.

came to the United States. It should be observed be easily moved; allow me to present a few obserpottery was valued at two millions sterling, and vis inertize of the several machines intended to be employed from thirty-five to forty thousand per-moved. It may be a gratification to the ill willed disposition of some, that our chariot wheels drive Let us now take a view of both sides of the heavily; but even in them tenderness for the ani-

sufficient impulse given, it will run fairly round. When two wheels are fastened at the ends of an axle, they incline diserent ways, and a constant

This mode of forming the wheel, like every Let not the American Farmer think these are other received practice, has its advocates. The informed by an experiment recorded in the proceed-COGITATIVUS. | ings of the board of agriculture of England, and a

Small trial at home, the difference between wheels, found by experience. J. M.

Baltimore, Oct. 16, 1819.

#### ON THE CULTIVATION OF ONIONS AS PRACTIS ED IN NEW-ENGLAND.

New-London, Ct. Oct. 23, 1819.

can Farmer of the 15th inst., a request from a corresthis request without thinking the information required. would be beneficial to himself and his fellow eitizens, I send you the following account of the manner of cultivating this valuable root in Wether-field, in this state. The onions of Wethersheld have been considered, and mould. Almost every family has a garden containing the same effect. from a rood to two or three acres; and sometimes six or eight. The longer gardens have been planted with onions, the better they are considered; on the other hand, a new garden, however rich the land may be, will hardly ever produce half a crep.

Early in the spring the ground is heavily manureddry gardens, ox manure, and those on low lands, with plough drawn by a horse generally] about four and a convenience of the owner. The beds are then made with a rake and hoe of an oval form-a marking rake is then made use of, for marking the proper distances seed. This rake is like a common rake, with the exception, that it only has four teeth about eight inches distant from each other. The rows are always made across the beds. After the marking is performed, a woman follows [for almost every thing in raising onions is done by the women] and sows the seed, by taking a pinch of the same from a dish she carries with her, and distributing it properly through the trench made by the take the weeds from among the onions, and bring fresh dirt to them. The onions must be wed four or five times in this manner during the summer. When they and fallen, they are pulled and stripped [tops out off] and carried out of the way of the rains; they are then brushed and are ready for market.

I am apprehensive that this sketch will contain little. if any, new information; nevertheless, this is the belonged to human beings! " method of cultivating the onion in New-England "

The profits of raising onions in good seasons are An acre of ground well cultivated, t considerable. presume, will produce four thousand bunches; you can formed by women. It is even so, and there are but few ladies in Wethersfield that think the employment beneath them. Nor does the employment at all tend by to debase or darken the mind. I will leave it to any ten good judge, whether the ladies of that town are not as easy in their manners, as interesting in their conversation, and as elegant in their appearance as those of any other place.

You'soe, Mr. Skinner, that I am an advocate for industry; not that industry which induces a lady to spend six months in working a ruffle, but that which adds something to the common stock of human blessings.

Wishing you success in your present arduous undertaking, that of disseminating knowledge on the noble science of agriculture, I subscribe myself, respectfully Your obedient Serv !

SIMEON PRANCIS.

Four hundred dollars in this market .- Ed.

Mr. Skinner,-I recollect to have read in constructed upon the principles here mentioned, your useful paper, some account of the effect of will immediately appear, though its plainness may bassafras upon vermin, that infest heds, bedsteads, not convince the farmer or mechanic, as I have &c. In St. Peirre's Studies of Nature, vol ii. p 35, I was struck with the following lines, which, if you please, you may publish in the Farmer.

"I have heard of an old officer, who being very much incommoded with bugs, at the hospital of tion quickly ensues, and putrefaction is so rapidly proround his bed, and thereby got the better of that Mr. Skinner,-I observed in your valuable Ameri- nauseous vermin. This remedy, I am aware, will appear to many persons worse than the disease; but pondent, that you would "publish an account of the method of cultivating the onion in New England." Be- I believe it is possible to find others more agreeamethod of cultivating the onion in New England. Bellow, in perfumes and oily essences; at least, I have that we have none. However, it is now well distributely being that your correspondent would not have made ble, in perfumes and oily essences; at least, I have and in a fair way for experiment—another year remarked, that the odour of various kinds of aro- will test its qualities, and enable all who may desire it, matic plants put to flight those abominable ani. to cultivate it. mals."

Sassafras is, I believe, aromatic, which proves The ontons of Wetnersheld have been considered and that St. Peirre's observation was correct; and and the Editor undertakes to supply such numbers as, that any other aromatic plant or tree would have by accident, do not reach the hands of subscribers—

Baltimore, Oct. 13, 1319.

#### ENGLISH AGRICULTURE.

MR. SKINNER,-Looking over a file of English in advance. that of horses; the manure well rotted. Soon after News Papers the other day, I met with the folthe frost is out of the ground, the gardens are ploughlowing in the Norwich, Xarmouth and Lonn Conto use their influence to add to our list of subscriber. of the rows, and for making an opening to receive the on the fields of Waterloo, since the battle. I accomplish it if possible. should be glad if some one of your numerous correspondents would inform us of the origin of the ingenious mode of increasing the produce of apples

#### IGNORAMUS.

rake, she then covers it. About three weeks after arrival of several vessels at that port from the Con rake, she then covers it. About three weeks after timent with bones, observes, that the eagerness of tatoes, same price—Turnips, 37½ ets.—Geese, 75 ets. hoeing between the rows: the weeders then carefully English agriculturists to obtain this manure, and the cupidity of foreigners in supplying it, is such as to induce the latter actually to rob the sepulchres of are sufficiently ripe for gathering-their tops being dry their forefathers. Bones of all descriptions are imported; pieces of half-decayed coffin-tire are found mentions, that the water is now in the canal for among them; and these skilled in anatomy have no the distance of nine miles, commencing about four hesitation in pronouncing many of the bones to have miles below that village; and that the commission-

#### SINGULAR CUSTOM.

calculate what they would be worth.\* I remarked its excellent cider. For the purpose of insur- to Utica by means of the canal.' before, that most of the labor in raising onions is per- ing a good fruit harvest, the following custom is ing a good fruit harvest, the following custom is almost universally kept up in that part of the counseveral times :-

Here's to thee, old apple tree; Whence thou may'st bud, and whence thou may'st blow '

And whence thou may'st bear apples enow! tiats full! caps full! bushel, bushel, sacks full! And my pockets full too! Huzza! huzza!

Some are so superstitious as to believe, that if they may, the trees will bear no apples that year.

# FARMER.

BALTIMORE, FRIDAY, OCTOBER 29, 1819.

A hint-every farmer should occasionally spread on his manure heap and farm pen, through the winter, a bushel or two of plaster -- we are assured that fermentathe invalids, permitted the spiders to multiply moted, that the manure is in much better order for use in the spring -- so says experience.

> To numerous applications for Chile wheat, that we should have been happy to gratify, we must answer

> The early numbers of the American Farmer an Index will accompany the last number of every volume-Notes of the banks of North and South Carolina, Georgia, Virginia, and the District of Columbia, except such of the last mentioned place as are known to be in disrepute—will be received at par for the American Farmer—The terms of which are four dollars

ed, [a spade is never used] the land is then thoroughly rier of May 1st. last, which I transcribe for the if each subscriber we have now would only add one information and example of such as look up with name more, we could promise them an engraving in half feet in width. These beds are intersected with reverence, and give the preference, as they ought every number of some useful machine or agricultural allies across the garden, as often as suits the taste or undoubtedly, to every thing from the mother countimplement of domestic invention, or taken from formalization. undoubtedly, to every thing from the mother countries publications. This would greatly enhance the try. The new system of manuring ground, originary expense of the work, but it would also very much nated. no doubt, in the abundant crops produced enhance its value, and the Editor is very anxious to

#### Present Prices of Country Produce in this Market.

Superfine Flour, from the wagons, \$5.58-Whiskey, 38 to 40 cents per gallon.-Tobacco, good Maryland, from \$8 to 10 and \$9 to 11-Virginia sales, 6 hhds, \$3 25 to 8 50 not the first quality-Wheat, \$1 16-A correspondent from Grimsby, referring to the Corn, 61 to 63 cts-Beef, best pieces in markets, 10 ets. —per quarter, from the country, 5 to 6 cts.—potatocs, Irish, \$1 00 per bushel, retailed at market—Sweet po-

Western Canal. - A letter to the Editor of the Northern Whig, dated at Rome on the 27th ult. ers and engineers have passed in boats drawn by horses, upon the canal, nowards of eight miles. The writer adds, that "before the close of the The southern part of Devon is remarkable for season, salt will undoubtedly be carried from Salina

ADVERTISEMENTS, which are, in their nely. On the eve of the Epiphany, the farmer at-ture and objects suited t a paper of this sort, such as, tended by his workmen, with a large jug of citier, the sales of land, seed, live stock, implements of husrepair to the orchard, and encircling one of the best bandry, new inventions, acceptance, to be paid in adbearing trees, they drink the following toast three vance. The very extensive circulation of this paper among landed men, throughout the United States, makes it an eligible medium for giving such public notiees, and one publication is as good as forty, unless in cases where the law prescribes a greater number of times.

The Editor of the American Farmer solicits information as to the date of the establishment of all the Agric Ateral Societies in the Union, their artic or of neglect this ancient custom, be the weather what it constitution, proceedings, &c. &c. for publication in this paper.

# PRICES CURRENT

### AT BALTIMORE:

Carefully Revised and Corrected every Thursday

Carefully Revised and Corrected	6161	y Inter	saay.
ARTICLES.	rer.	RETAIL	PRICES
	bbl.	17	
No l		15	
No 2		13 50	
200017	lb.	16 31	37 1-2
Butter,		33	31 1-4
Coffee, first quality, second do		27	25
Cotton,		27	
Twist, No. 5,		55	
No. 6 a 10,		56	<b>6</b> 0
No. 11 α 20, •		63 90	1 30
No. 20 a 30, - Chocolate, No. 1,		33	
No. 2,		28	
No. 3,		25	
Candles, mould,	pox	20	20
dipt,		18	19 scarce
spermaccti,	1b.	9	10
Cheese, American, Feathers,	10.	60	65
Fish, eod, dry	qt].	3 50	
	bbl.		retail
mackarel, No. 1 a 3		9	12
shad, trimmed,		7 75 6	7 87 6 50
Flour, superfine,	bbl.	5 50	6
fine, middlings,	3011	4 50	5
гуе,		4 α	4 25
Flaxseed, rough,		none.	
cleaned,	bush		
Flax,	lb.	do 12	15
Hides, dryed, Hogs lard.		12	13
Leather, soal,		25	30
Molasses, Havana,	gal.	62 1-2	75
New Orleans, -	-	75	
sugar house,	1	1 50	
Oil, spermaceti," PORK, mess or 1st quality,	gal. bbl.	1 30	20
prime 2d do	0.51.	16 α	17
eargo 3d do		14 a	15
Plaster,	ton	5	
ground	bbl.	1 75	
Rice, Spirits, Brandy, French, 4th proof	lb.	2	3
peach, 4th proof	3411	1 25	1 50
apple, 1st proof		75	1
Gin, Holland, 1st proof		1 50	
do. 4th proof		1 20	60
do. N. England		1 50	1
Rum, Jamaica, American, 1st proof		75	1
Whiskey, 1st proof		50	
Soap, American, white,	lb.	18	1
do. brown, -	ł	19	
Sugars, Havana, white,	1	15 50	1
loaf,		25	
lump,	lb	30	
Salt, St. Ubes,	bu .	76	
Liverpool, ground,	112	75	
Shot, all sizes, -	lb.	12	1
TOBACCO, Virginia fat, do. middlings,	10""	6 50	)
Rappahannock,	1	5	5 50
Kentucky, -	,	6 50	
small twist, manufactured,	lb.	23	
pound do TEAS, Bohea,	1	63	
Southong,	lb.	7.5	a 10
Hyson Skin	1	75	
Young Hyson,	}	1 2	
Imperial,		1 7.	
WOOL, Merino, elcan, unwashed, -		4	1
crossed, clean,		6	
unwashed, -		8	4
common country, clean,	4	3	
unwashe	a	2 8	31
skinner's,	1	1 9	J.

# RATES OF EXCHANGE.

OF BANK BILLS.

Corrected monthly for the American Farmer.

	Corrected monthly for the American	Farmer.
٠		
s	United States' Bank, and Branches.	par
-	Boston Banks	par
	NEW-YORK.	par
ļ	City Banks	par
1	State Bank at Camden	par
อ	Treaton, Newark, and Brunswick,	21-2 dis.
1	Mount Holly, Bridgetown, &c.	2 1-2do
s	PENNSYLVANIA.	
1	Philadelphia,	par
	Stephen Girard's Bank.	par
0	Chester, Easton, Harrisburg, Montgom- (	2 1-2 dis.
0	ery, Hulmeville, Germantown,	
U	Carlisle Bank, Chambersburg, Gettysburg,	21 do
	York, Lancaster, and Columbia Bridge,	nominal.
į	Carlisle, (Agricultural)	6a7 1-2 dis.
5	Bank of Pittsburg, Westmoreland, Bedford, Brownsville,	
9	Meadville, Centre, Huntingdon, Milton	nominal.
9	DELAWARE.	
0	Bank of Delaware,	1 a 1 1-2
5	Wilmington and Brandywine,	1 a 1 I-2
	State Bank at Dover, and Branches,	1 a 1 1-2
	Laurel,	50 dull
7	Smyrna and Milford,	8
ó	DISTRICT OF COLUMBIA.	
•	- n 1	l dis.
	Georgetown Banks, Alexandria Banks, (excepting the Me-)	1 do
5	Chames and the Frankers	20
	Mechanics of Alexandria,	50
	Franklio of Alexandria,	**
5	Bank of Virginia, Farmers' Bank, and	,
3	Bank of Virginia, Farmers Dank, and	1 1-2
0		7 I-2 a 25
5	Saline and Parkersburg	no sale
	NORTH CAROLINA.	
	State Bank and branches	6 1-2 dis.
	Newbern and Cape Fear	7 1-2
	SOUTH CAROLINA AND GEORGIA	
	Bank Bills	2⅓ a 3 do
	RENTUCKY.	
	Old Banks,	nominal
	он10.	
	Chillicothe, Marietta, Muskingum, Ur-	
ı Ü	banna, Stenbenville, &c. Mount Pleasant, Montpelier, New Lis-	15 a 50*
	Mount Pleasant, Montpeller, New Lis-	dull
	bon, St. Clairsville, &c.	61 61 616
50		
JV	POOR RICHARD'S ALMANA	
	The way to wealth, as clearly shown in the	he Preface o
- 2	an old Pennsylvania Almanac, intitled, I	Poor Richard
20	Improved *	

Improved.\*

COURTEOUS READER.

I have heard, that nothing gives an author so great pleasure, as to find his works respectfully quoted by others. Judge, then, how much I must have been gratified by an incident I am going to relate to you. I stopped my horse lately, where a great number of people were collected, at an auction of merchants goods. The hour of the sale not being come, they were eon-The node of the sale of being come; may were controversing on the badness of the times; and one of the try, and your king. Handle your tools without mittens are company called to a plain clean old man, with white tens; remember, that, "the cat in gloves catches no locks, 'Pray, l'ather Abraham, what thick you of the times? Will not these heavy taxes quite cuin the to be done, and perhaps you are weak-handed; but country? How shall we ever be able to pay them? What would you advise us to do?—Father Abraham stood up, and replied, 'If you would have my advice, t

" Dr. Franklin for many years published the Pennsylvania Almanae, ealled Poor Richard [Saunders,] and furnished it with various sentences and proverbs, which had principal relation to the topics of " industry, attention to one's own business, and frugality.' The whole or chief of these sentences and proverbs he at last collected and digested in the above general preface, which were read with much avidity and prolit; and perhaps tended more to the formation of a national character in America, than any other cause.

will give it to you in short, "for a word to the wise is enough," as Poor Richard says.' They joined in desiring him to speak his mind, and gathering round him, he proceeded as follows :

'Friends,' says he, 'the taxes are indeed, very heavy, and, if those laid on by the government were the only ones we had to pay, we might more easily discharge them; but we have many others, and much more grievous to some of us. We are taxed twice as much by our idleness, three times as much by our pride, and four times as much by our folly; and from these taxes the commissioners cannot case or deliver us, by allowing an abatement. However, let us hearken to good advice, and something may be done for us; "God helps them that helps themselves," as poor Richard

says.

i 'I. It would be thought a hard government that should tax its people one tenth part of their time, to be employed in its service; but idleness taxes many of us much more; sloth, by bringing on diseases, absolutely shortens life. "Sloth, like rust, consumes faster than labor wears, while the used key is always bright," as roor Richard says. "But dost thou love life, then do not squander time, for that is the stuff life is made of," as poor Richard says. How much more than is necessary do we spend in sleep! forgetting, that "the sleeping fox catches no poultry, and that there will be sleeping enough in the grave," as poor Richard says.

sleeping enough in the grave," as poor Richard says.
"If time be of all things the most precious, wasting time must be," as poor Richard says, "the greatest prodigality;" since, as he elsewhere tells us, "lost time is never found again; and what we call time enough always proves little enough : ' let u. then up and be doing, and doing to the purpose; so by dili-gence shall we do more with less perplexity. "Sloth makes all things difficult, but industry all easy; and he that riseth late, must trot all day, and shall scarce overtake his business at night; while laziness travels so slowly, that poverty soon overtakes him. Drive thy business, let not that drive thee; and early to bed, and early to rise, makes a man healthy, wealthy, and

wise," as poor Richard says.

'So what signifies wishing and hoping for better times? We may make these times better, if we bestir times? We may make these times better, if we bestir ourselves. "Industry need not wish, and he that lives upon hope will die fasting. There are no gains without paies; then help hands, for I have no lands," or, if I have, they are smartly taxed. "He, that hath a trade, hath an estate; and, he that hath a calling hath an office of profit and honor," as poor Rich rd says; but then the trade must be worked at, and the calling well followed as worked at, and the calling well followed, or neither the estate nor the office will enable us to pay our taxes. If we are industrious, we shall never starve; for, "at the working man's house, hunger looks in, but dares not coter." Nor will the bailiff or the constable enter, for "industry pays debts, while despair increaseth them." What though you have found no treasure, nor has any rich relation left you a legacy, "diligence is the mother of good luck, and God gives all things to industry. Then plow deep, while sluggards sleep, and you shall have orrate to sell and to keep." Work while it is called to-day, for you know not how much you may he hindered tomorrow. "One to-day is worth two to-morrows," as poor Richard says; and farther, "never leave that till to-morrow, which you can do to day " If you were a servant, would you not be ashamed that a good master hould catch you idle? Are you then your own master? Be ashamed to catch yourself idle, when there is somuch to be done for yourself, your family, your counstick to it steadily, and you will see great effects, for "eonstant dropping wears away stones; and hy dili-gence and patience the mouse ate in two the cable; and little strokes fell great oaks."

[ To be continued.]

PRINTED EVERY FRIDAY AT \$4 PER ANN. FOR JOHN S. SKINNER, EDITOR,

At the corner of Market and Belvidere-streets.

BALTIMORE,

Br JOSEPH ROBINSON ..

# AMERICAN FARMER.

# Bural Economy, internal improvements, news, prices currety,

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIEG.

Vol. t.

# BALTIMORE, FRIDAY, NOVEMBER 5, 1819.

NUM. S2.

### AGRICULTURAL.

FOR THE AMERICAN FARMED Pharsalia, 21st Sept. 1819.

J. S. SEINNER Esq.

Dear Sir.—It gave me great pleasure to observe in the 15th number of the "American Farmer," some notice of a subject which has deeply interested my wishes, and occupied a great deal of my labour for the of marsh embankment. Seven years ago, I relinquishdent occupations of husbandry, which was not re the laborious drudgery with which it is pursued upon the rugged soil of the interior of Pennsylvania, my need in the operations of embanking marsh lands native state, I bestowed but little attention to the practicability of reclaiming our low grounds until within the last five years. My first essay was then attempted rather from motives of health and comfort, than from any expectation of improving the quality, or increasing the quantity of my grass lands.

Two small pieces of low, detached marsh, nearly surrounded by high ground, containing perhaps, five acres, both of which were mud flats, entirely naked of grass, unless during an occasional very dry summer and lying near the site of the dwelling house, presented offensive objects to the eye, evidently contaminated the atmosphere by the miasmata that were exhaled from their surface, and, what was almost equally distressing, afforded a nidus for the generation of myriads of pestilent musquitoes every summer. To drain and embank these pieces of marsh became early an object of considerable interest. After imperfectly completing this rude attempt, for I was ignorant of the most eligible process of effectually accomplishing it, I was surprised and delighted to observe that a fine growth of grass had clothed the whole surface with a beautiful verdure, before the close of the season in which the work was finished. As the soil was purely alluvial, I entertained no doubt of its great fertility; but I was astonished to see it so soon covered with a grass which grew only on rich, and low grounds. The innumerable small springs which emptied themselves into them from the adjoining high grounds, had prezerved them in nearly a fresh state.

From this limited success, my attention was attracted to more extensive enterprise, and during the two succeeding summers 1 embanked about 120 acres of marsh Having no experienced labourer at command. and absurdly depending upon the weight of the incumbent mud, to compress my mounds into a compact body which would be impervious to water, I constructed my banks in a careless and rough manaer; pressing the work with too much ardour, and anxious only to heap the mass to a sufficient elevation to oppose our high tides. The consequence was, what any man of common sense ought to have anticipated, the dikes proved so leaky, as to admit salt water enough to cover the surface of my low marsh during high tides, and became sources of perpetual embarrassment and expense. Finding them ineffectual, I resolved to make a more patient and judicions effort; and in June last I commenced another bank, including all the marsh before last of August, which completely answers my highest expectations. To-day, I had a fine opportunity of testing the tightness of my banks :- the walt water rose upwards of two feet upon their outside, and scarcely a

gallon passed through them

posing below. The enterprise of our shore is much excited at this moment, upon agricultural improvement generally; and many of our best farmers, upon both sides of the peninsula, feel themselves forcibly attracted to the reclamation of their marshes. and useful information should be extensively diffused, last four years:-I allude to the important operations and the subject minutely explained, in order to prevent that discouragement and dangerous langour, which extensive farm, which abounded in marsh esteemed of provement of our country, in the arts of correct hus- desolation that surrounds me. a good quality for spring grazing. Although I had handry, from the honourable testimony of your late la-always felt a particular predilection for the indepen hours, now before me; I am sure you will, not relactantly, devote a portion of your time and talents repressed even by the daily opportunity of witnessing preatedly to solicit the communications of detailed plans, and information from those who are experi-

> Delaware and Pennsylvania, on their Atlantic sides, ontain many intelligent inco upon this subject, whose emarks would enrich the columns of your useful paper, and confer an essential obligation upon many of their countrymen. It is a subject of great astonishment to me, that so distinguished an agriculturalist as Judge Peters, should have neglected this important source of a farmer's wealth; especially as his superior talents, and the echanting style of his writings, are so well calculated to render every thing he obligingly communicates to the public particularly interesting The scarcity of winter forage is no where so terribly felt, and so loudly complained of, as in the maritime parts of your state, and those south of Maryland: and vet few situations are capable of being more abundantly supplied with this valuable article, were common exertions made to obtain it.

The deplorable consequences of this evil are continually presenting themselves in the scanty crops of heir impoverished farms, and in the mortifying spectacle of poor and miserable cattle, and even horses,which disgraces our farm-yards, our fields, and our humanity, during every successive spring: and yet, with mysterious infatuation, we fold our arms in sluggish inactivity, and permit the next recurrence of that genial season, to bring with it the same wants, and the same distresses. The present, if I am not deceived is a propitious period to spread widely among us a reme dy, and an effectual one too, for these grievances The adoption of some measures that would increase our meadow grounds, forms the greatest desideratum in our system of farming Without long forage in greater abundance, as well as a better supply of exclusive summer pasture, we will in vain look for any material resuscitation of our worn-out lands. I am not attempting to add any excitement to your ardour upon this subject: I do not think you require it; the description, you know sir, is but too faithful, and the oecasion but too common also, not to have repeatedly moved your observation and your regret

22d. Sept. I had progressed thus far yesterday, in the recess from field exercise, which a storm afforded. To-day presents a gloomy contrast. What a dependent and short-sighted creature is man! This is an exclamation in the mouth of every reflecting man, and al-most of every preflecting man too, upon the sudden and unexpected neursion of disappointments. At this moment I am but too well justified in its use. Yesombanked, and finished upwards of 2,000 yards by the terday my expectations were triumphant—my lately tried? constructed banks, appeared a tight and perfect barrier does north east tempest lever saw, my backs are com- and sufficient for the purpose they were in caded? I trouble you with this familiar narrative of my x-pletely covered with water, from 12 to 18 inches over

tion, in requesting your particular notice of the sub-lof my best reclaimed grounds, well set in timothy and jects of inquiry which I shall take the liberty of pro-clover, mundated upwards of two feet with salt water, and the whole threatened with total rain. I am greatly discouraged, it is true, and I have reason. florid promises of a summer's toil are blasted in a moment, but I will not abandon an enterprise so val abic and praiseworthy. I could boast neither of patience, state of the public feeling, it is important that sound nor fortitude until the slow, and sometimes uncertain operations of husbandry, improved both i subscribe heartily to the truth of Tully's remark, "agriceling proxima sapientize;" such at least has been my expeed the laborious duties of a harassing profession, would be occasioned by a few unskilful and abortive rience of its moral influence. I will therefore pro-which I pursued on the Eastern Shore of Virginia, and attempts If I may be permitted to form a judgment secute my inquiries in the occasional intervals of repurchased on the Atlantic side of our peninsula, an of the landare interest you feel in the progressive im- flection, that I may snatch from the distressing secur of

> First -- Flave reclaimed marsh a spaceeded in the production of artificial grasses, where not not enture 20 or 24 inches of fall could be commanded at any time; and where, during the prevalence of particular winds which maintain an unusual and protracted elevation of the tides, not more than half that fail can be had for several days in succession?

> 2nd. Have reclaimed marshes been made valuable for grass, whose surface consists almost entirely of a mass of fibrous roots to the depth of 8 or 9 incles; and if so, was the turf paired off and burnt, or was it permitted to undergo a gradual decomposition, after the natural grass was desiroyed?

> 3d. In grounds thus covered with turf, has the plough been used to prepare them for the reception of grass seeds; or has it been found sufficient to tear the surface with harrows, and then to sow the seed

> 4th. May it not be received as a tolerably correct standard, by which to ascertain the value of march soil, that the nearer it approaches to a pure blue mould, or, in other words, the shallower the superficial stratum of roots, the better it is?

> 5th In reclaimed marshes, whose situation does not admit of any permanent current of fresh water through their ditches, and where, of course, during periods of drought similar to that of the late summer, the salt water which passes through the sluices, occu-

> 6th. Are there any sluices or trunks, with valves pening toward- the sait water, so tight as not to admit some salt water ?

7th. hat is the best plan of their construction!
8th llas it been observed, that when high tides revail several days in a dry time, and when the excavations, so common upon the surface of many marshes, are laid dry by the evaporation of their water, that an oozing of salt water takes place through the deep issures made by the sun in the mud of their botoms. so as sometimes to cover them 2 or 3 inches deep, in the lowest parts?

9th. Does not the mud upon the outside of all banks receive deep fissures, whilst their moisture is evaporating by the heat of a summer's sun?

Is it common or necessary to fill up these cracks with additional soft mud plastered over them, or are they permitted to fill up by the gradual pulverization of the mud on the surface by a a inter's frost?

11th. What length of time will be required, where the banks and sluices are completely tight, to freshen and prepare very salt marsh for grass seeds?

12th. Will this process be accelerated by loosening the surface with a plough; and has this operation been

13th. At what distance apart are the interior drainto the highest tide I had witnessed since my settlement ing ditches usually opened in marshes not boggy, or upon the eastern shore of Virginia, a period of -ixteen even soft upon their surface; and what are the comyears. To day, by a continuance of the most tremon-mon dimensions of such ditches, esteeded effectual,

14th. are not small superficial drains of an angular periments, that you may better comprehend my inten libeir summits; the marsh within, besides many acres shape, like the ditches, one foot wide and 7 or 5 in-

15th. In what manner do the most approved bankbuilders, dispose of their superficial sods in embankiog a marsh, whose surface is composed of turf?

16th. Is it necessary in very solid marsh, to allow

not required, from its situation, to have more than 8 feet base and 4 feet elevation; especially when the valued from what it was, "when the rural Marol of the science. sung" of the cares and the delights of the agrirats apprehended?

17th. Is it not invariably improper to open two ditches, one on each side of, or near to, the bank? Or, in other words, is it not better to obtain the mud, with which the bank is constructed, from a single ex-

terior ditch?

upon the sea-board, invariably perish when inundated accidentally for 6 or 8 hours by salt water, very little diluted, and where little or no rain has fallen to saturate the earth with fresh water, immediately before its independence, up to the present period. For his read a treatise on Husbandry, or attempted to such easualty?

19th. Are not grasses considered essentially the growth of fresh, unsalted ground, much more capable of sustaining life and vigour after such inundations of salt water, than is generally imagined, especially in old meadows having a condensed growth of timothy?

20th Is there any one of the artificial grasses. endowed in a superior manner, with the power of resist-

ing the injurious effects of salt water

21st. Is it not much more difficult and hazardous, for these reasons, to attempt the reclamation of marshes situated immediately contiguous to the water of the ocean; and do not breaches frequently occur in banks from violent tempests, or from the perforations of muskrats?

22d. Is not salt water frequently admitted through the valves of the sluices, which are prevented from closing by extraneous bodies being occasionally lodged in them

23d. What precautions are found most effectual to

prevent these accidents?

24th. What meadows have been inundated by the late vielent tempest? Were their banks broken down, or did the water overflow, without destroying them?

I would add some othe queries upon which information would be desirable; but I have already committed only from year to year, afford but obscure indicaan unpardonable trespass upon your patience. Please trons of the nature and operations of those princimake an effort to bear with this, as well as the privilege I have assumed of, perhaps too familiarly, communicating some incidents most occessarily required by the subject. Oblige me by publishing the whole, or a part of the above queries, after making such alterations and amendments, as your superior judgment may point out. I am, with great respect, Your friend and ohed't servant,

т. н. P. S 23d. Sept. The wind shifted about sun-set gesterday evening to east, and afterwards to south

east, with a violence that amounted to a hurricane. Thousands of eur best trees are blown down, and vast quantities of fence totally lost. The tide arose, during the night of the 22d, to the unexampled height of 14 feet upon our marsbes. The miscrable inhabitants of our islands, are reduced to a state of the most wretched indigence and destitution, by the destruction of their corn, cattle, sheep, and fences. Most of our coasting vessels are ashore.

FOR THE AMERICAN FARMER.

FLINTSHIRE, Caroline County, Va. MR. SKINNER.

Sir, -I am really rejoiced to see the great inserest taken by the farmers, in my part of the analysis of air, vapour, water, &c. they have country, in your paper, and also to learn from adopted definite terms, which convey to every one, the many valuable essays, which it brings to us in the most perspicuous manner, an idea of the ple of our country have at length began assiduous- ascertained. And in treating of the external strucsciences, that of agriculture.

tardy in its progress toward perfection; although by references to some universally common natural it seems to have been the first, and must alluring objects. Thus they define colours, " ash grey,

vanced from what it was, " when the rural Maro of the science.

discussion of which your paper has been properly been more minutely and exactly described. shut, have given to the winds the whole tribe of I would propose, therefore, that each Farmer fantastical schemes, by which speculators realized should make an exact report, for publication, to thousands by a lucky draft, or hundreds of thou the Agricultural Society of which he is a member, sands by a fortunate voyage

its own nature. The husbandman must wait upon more cauct and perspicuous. and observe the seasons. His life is limited to a span, while the diversities of soil, and the annual No. 1. The size and general character of the Farm from changes of climate and vegetation, are infinite. The principles of vegetation are covered with a agricultural experiments; because for each one he making agricultural experiments.

To surmouat this procrastination as far as practicable, it is necessary that cultivators should confederate, and make common cause in searching out On digging graves or post holes, it has been observed. he ways of Nature in her government of the vegetable kingdom; that they should adopt some clear and exact mode of communicating to each other

each one shall be enabled to make

In chemistry, which is the kindred and analogous science to agriculture, philosophers have found it essentially necessary to adopt uniform terms and phrases, which convey the same ideas and are alike intelligible every where. In their from various quarters of the Union, that the peo- objects spoken of, so far as their natures have been (5) To ploughing for ly and earnestly to cultivate the most useful of all tures and appearances of minerals they have care- (6) fully explained, in the outset, what they understand (7) Husbandry has been every where exceedingly by certain specified colours, densities, and the like, (8) of the arts, by which man has been attracted from the colour of well burns wood ashes, lead grey,

ches deep, very serviceable in grass lands made upon the surage into civilized life. The blessners, the ash grey with a little blue and the metallic lustice," healthful pleasures, and the proud independence of &c. &c. Without this apparently tedious and unthe farmer, have been the themes of praise, as necessary nicety, in the explanation of experiments, well by poets as by philosophers in all ages; yet, and the description of objects, it would have been it is singular, that the ait of husbandry, as a impossible for the chemist of France to have been more than 4 or 5 feet, from the edge of the datch to science, should have lagged so long behind all of any service to the chemist of England, or for the commencement of the base of the bank, which is others, and should be, even at this day, little addition to have united in promoting the progress

much labour has been expended on it, and so many The slow progress made in improving the art of volumes have been written on the subject, may tilling the earth, I have thought, has been owing be a tributed in a great degree to the want of to two causes. First to the impatient headlong perspicuity, and accuracy in describing experiments avarice of our nature. This, one of our propen-is) as to enable other agriculturists, in other situa-18th. Do the artificial grasses in reclaimed marshes sities, has been rather charished than checked tions and circumstances to test their utility by among our fellow citizens, by the peculiar situal repeating them, or to profit by the useful principles tion of our country, since the final settlement of which they suggest or develope. Every one who some years past, the minds of the people have been follow any of the courses they recommend, must diverted from the science of agriculture, by the have observed how exceedingly slovenly and unexact political circumstances of our times. The vast the subject is treated, and have experienced many feichannels of foreign commerce, which have so prollures in pursuing, as he thought, the precise line fitably invited our citizens abroad, are now very marked out, own graceauses which he could not commuch narrowed or entirely closed. Political events, prehend, but which would have been perfectly clear, which it is needless to consider, and against the had the experiments attempted to be followed have

or to the American Farmer, or to some other parer The second cause of the slow progress of the having a general circulation, in the following form, science, has seemed to me to arise chiefly out of or in any other manner which may be considered

(FORM OF A REPORT.)

which the Report is made.

It contains two thousand acres, situated in the upper The principles of vegetation are covered with a end of Caroline County, and is bounded on one side by thick veil; and the effects, which can be noted the river Rappahannock. Four hundred acres of the tract are in wood, and the growth is chiefly Red Oak and Hickory, some Pine, with an under growth, in the low places, of Ituckleberry, and, on the higher ples. It is impossible for a single individual to grounds, Dogwood and Rickory saplings; Red Cedac collect within the compass of his few years of ob grows in abundance wherever it is suffered to spring servation, many or very accurate and profitable up and remain. The whole tract, except the woodland, is enclosed by wattling, worm and straight rail must wait until "nature rolls round the seasons of The arable land is divided into three shifts or fields, rolling against the changeful year." Hence the great delay in and four lots of about ton peres good. land next the river lies gently waving or nearly level. The soil is silicious, that is, composed of much fiint sand, with a mixture of dark mould and red clay, which gives it a mahogany colour when moist or wet. that the soil is of the same composition for four or five feet deep. It is not plashy or retentive of water on the surface, either in winter or summer ; yet it sustains its crops during drought as well or better than argillaceous, the result of the few accurate experiments which or clayer soils in the vicinity, which is thought to be owing to its loose, porous texture, that permits the previously absorbed moisture to be attracted to the surface by the heat of the sun.

No. E. An account of a crep of wheat raised in the year 1819,(1) half a mile from the shore of the Ruppahannock river, in the upper end of Caroline County Virginia.

DR. (1) To rent of ten acres 00 00 bush, of clean wheat oo at \$00 per bush. To fallowing 00 (4) To ten hushels seed 00 60 ex cart loads of chaff 00 wheat 00 do do straw 00 . 00 sowing . Gross product \$ barrowing . 00 00

cutting & gathering 00 cleaning delivering or sending to market . 00

Expense 00 Nett profit \$ 00

Total expense

NOTES.

(1) This crop was sown on the day of During that time and cut on the day of there fell inches of rain,\* and inches of snow, with which the ground was covered days. The degrees of Fahrenheit; average heat of April was degrees, and of June and July degrees. There were no very remarkable, or great transitions Repairing houses from heat to cold, or the reverse, from April until Cleaning ditches harvest: nor were there any heavy driving rains, or mending roads strong blasts of wind in that time, which might have incidental charges caused the wheat to fall and lodge.

2 The soil of this ten acres is silicious, or sandy,

&c. as described in No. 1.

3: This fallowing was made on the day of .
The soil was turned up by a strong barshare, which cut about inches deep. From the time the fallowing was done, until the seed was committed to the earth, there fell inches of rain.

of Maryland white wheat, weighing 62 lbs. to the bushel; a sample of which was preserved, and compared with the product, which had fallen off very much corn, or other crop, taken from one, two or more in appearance, and, in reality, for it weighed only 57 acres, as an example of his system of husbandry.

(5) This ploughing was made by a common barshare, and turned up the soil well pulverised, and free of lumps, clous, roots, and weeds.

(6) The crop was cut by a scythe and cradic, and

being shocked up in the field.

(7) The cleaning was performed by a machine invented in Orange County Virginia, and generally used, and much approved of, in that and many of the neighbouring counties. Its operation is to separate the fectually, and with great ease and rapidity. The wheat

is then separated from the chaif, and cleaned by the common fan. (8) The crop was delivered to the purchaser at a

landing on the river, half a mile from the barn.

No. 3. An account of a crop of clover raised in the year 1819, one mile from the river Rappahannock, in the upper end of Caroline county Virginia.

IA similar account may be made of a grass crop to the foregoing one of wheat, with this difference, that by the united effects of soil and climate. As the might thus be invited to the adoption of accuracy, as the patting of it down, will cost as much or more, object of cultivation is to aid the beneficial effects perspicuity. and method, the utility of which are in some cases, than other crops, and but very little of soil and climate, the quantity and nature of the so very obvious, and which are so indespensably to keep it up for several years; therefore the total manuse spread upon the land, hould be noted in necessary for the further and sure improvement of cest of the labour bestowed on grass lands, for the number of years it will continue to produce good crops without breaking up the soil, should be summed manner. The nature of the seed, as well with reup, and the annual average only charged to each year; lation to its own quality as compared to its proto-yed on a clover let, including the preparation for

To make an exact estimate of the clear income derived from a tract of land, the farmer must draw up an out according to the forgoing forms, in which all debits and credits, of rent, &c. not included in those accounts the stock derives from the pasture and uncultivated lands, thus:

the sides of which are exactly perpendicular and the bottom flat, may be used-a wooden vessel might absorb a considerable portion while the rain is falling -Such a vessel placed in the open yard or field, clear from any drippings of the trees or house-and measured immediately after each rain is over, will give the quantity or number of inches of rain, that falls in any given time.

No. 4. An account of the profits of a furm, the size and manure. The farmer should accustom himself to general character of which, is as described in form No. 1.; three hundred acres of which were in cultivation or produced a crop in the year 1819.

\$ CR. 00 Wheat crop Rent of 1700 acres Feacing od orn crop 001 ∃rass crop and Stock 00 arden Stuffs 00 Gross amount Total expense \$ 00 Expense Clear income

According to these forms, or such others as (4) This seed was of the first quality Eastern shore may be deemed more perspicuous, a farmer may make a report of any given portion of his wheat, or of the experiments he has made; or he may thus make a report of his whole crop, provided the whole has been carefully observed and measured

The form of an account seems to be best calcuwas gathered and carried at once under cover, without lated to give, at a single glance, a clear view of the profits to be derived from the soil and cultivation described. And in the form of notes to such an account every particular should be as carefully, and as distinctly set down and explained as possiwheat and chaff from the straw, completely and ef-blc. The year when, and the place where, the crop grew should be noted with as exact an account of the weather, as can be had, from the time the seed was committed to the earth until the crop was gathered; that the effects of climate and season may be judged of. An exact description of the nature of the soil on which the experiment was by the number of square yards in an acre. made, should be carefully noted; because we know, that almost all vegetable operations are controlled manure spread upon the land, should be noted; and also the ploughings, &c both as to time and should be entered; and in which one third of the fair and reasonable in the neighbourhood for such tance. stock reared may be credited, or such other proportion land; and the cost of cultivation should, in like of stock as is equal to that portion of support, which manner be set down at the prices actually paid, or, if done by the farmer's own slaves, at the price for which hirelings could be had in the neighbor-\* Rain guage for this purpose, any tin or metal vessel, bood to do the work, taking care to neclude in the estimate, man, team, and implements. The cost of delivering the crop, and the distance which the cultivator is obliged to send it to market, should be noticed; that an opinion may be formed of the re-Made on the Potown w-upper end of Westmorland county, litive advantages of the situation of arable land.

In crediting the products, the farmer should not

set a value upon every portion of the product of the soil, as a part of the return for the labour; which he has bestowed on it. Nothing is more common than to let the chaff of the small grain blow away, and to leave the corn stalks in the field to waste, instead of converting them into manure, the only purpose for which they are fit. But the provident farmer will recollect, that a load of chaff or stalks will make him a load of manure, which when spread on the land, will be equal to two dollars worth of plaster of Paris, and that if he neglects to make such use of it, he does as clearly lose two dollars, as if he had lost that value of clean

As there may be some difficulty with Farmers in measuring their grounds and fields, which they have set apart as portions of their cultivation to be reported of, I will take the liberty of suggesting an easy and exact method of measuring grounds, without the help of a surveyor's instruments, which are only necessary when the contents of a very irregular shaped plat of land is required to be ascertained. Let a pair of compasses be made, and braced so as to represent the letter A, the top angle of which, when standing upright, to be about breast high, and the feet to stride exactly six feet. With such an instrument, made so light as to be twirled round with ease, from foot to foot, and the strides counted as the measurer walks along, any square piece of ground may be measured as accurately as by a chain and compass, by thus striding off the two sides with these wooden compasses, and multiplying the one side by the other, and then dividing

I have been induced to offer these suggestions to my brethren of the clod, in the hope that they necessary for the further and sure improvement of

\* The length of two sides of a lot of ground being tas for example, suppose the whole cost of labour bestowed on a clover lot, including the preparation for sowing, for the support of the grass for four years to amount to forty dollars, the crop of each year should upon inquiring into the causes. The manner of be charged with no more than ten dollars for cultivation, in other respects, the account and notes may be informable informable that the contents in square feet or yards. Thus a lot of ground which measures one hundred yards, or fifty strides of this compass one way, and two hundreds yards or one hundred strides of this compass the other way, contains 20,000 square thrown into the preceding form.] ascertained, to find the contents of the lot multiply one thing has been lost, or whether the cheapest and This method may be used to ascertain the contents of best methods have been used. In making the any sized lot, the sides of which consist of lines at charges of rent, and the price of labour expended right angles. As some of our readers may have foraccount, in addition to those of each of his crops made in ploughing, &c. the rent should be estimated at gotten their land measure table, we here give it from old Dilworth, and hope they will pardon us for prewhat is actually paid, or at what might be deemed suming them to have so soon forgotten an old acquain-

### LAND MEASURE.

The denominations of this measure are, acre, rood, square perch, square yard and square foot.

- 9 square fect make 301 sq iare yards make
- 1 square yard
- 40 square perches make
- 1 square perch 1 rood t acre.

### AGRICULTURAL EXPERIMENTS,

Virginia, in 1792.

First. Planted 20 hills in tadian corn, at 6 feet square only bring into the account, the clear merchan-distance, in a piece of light sandy land, so poor as not The cost of a common Farenheit Thermometer is \$8 diseable portion of the crop, but every portion of probably to have exceeded a peck to a thousand. On place, not exposed to strong currents of air or to it; as well that which is fit for provender for stock, first day of Ordober was garbered 36 ears, 3 nubbins, and that which can be applied to no other use than the control of the crop of t as that which can be applied to no other use than which shelled 13 quarts, I pint of corn, equal to 4 bare

bushels, 17 quarts, and 2 pints to the acre—l'ive bushels of blades, weighing 42 lb., and 3 bundles weigh-

from 20 hitls, planted at 4 feet square distance, 2 stalks in each hill, in tobacco ground, from which a crop of flax had been taken the year before, 41 ears, 4 nubbins, produced 15 quarts and 1 pint of corn, equal to 4 barrels, 3 bushels, 24 quarts, and pint per thou-sand, or 68 bushels, 18 quarts, and 1½ pints per acre. also recollecting that small beer was both the Five bundles of blades, weighing 4 lb., and 5 bundles of to blades weighing 1 lb. 6 oz., together equal to 268; lbs. per thousand, or 775; lbs. per acre.

hills of common old field; joining the tobacco ground, and planted at 4 feet square distance, 2 stalks in each hill, 38 cars, 2 nubbins, produced 7 quaits, 1 pint, equal to 2 barrels, 1 bushel, 23 quarts per thousand, or 33 bushels, 26 quarts, and t pint per acre. 'I wo bunney, so much used, must have the same effect, i. e

blades, weighing 10½ oz., together equal to 145 lbs.

5 oz. per thousand, or 419½ lbs. per acre.

Fourth. Twenty hills planted as above, in the same ground, and immediately adjoining the last mentioned, get eider made late in October or in November, putting into each hill at planting one gallon of farm from Redstreaks, Catalins or Maidensblush. In yard manure; produced 40 ears, 3 nubbins, and shelled 15 quarts of corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and health it is Determined to the corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and health it is Determined to the corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and health it is Determined to the corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and health it is Determined to the corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and health it is Determined to the corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and health it is Determined to the corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and health it is Determined to the corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and health it is Determined to the corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and health it is Determined to the corn, equal to 4 barrels, 3 bushels, 14 quarts 120 cellung, and better 120 cellung. per thousand, or 67 bushels, at quarts per acre, and 4 bundles, weighing 4 lbs 3 oz. of blades, and 2 bundles glass is put in later, it will deposit some sediment weighing 14 lbs. top blades, together equal to 271 lbs. in the bottles. It is to be dissolved by chipping it 14 oz per thousand, or 785 lbs per acre.

Memorandum .- From the last, viz. experiment Fourth, the corn is in safe preservation to be measured the first of March ensuing, thereby to determine the very warm ashes heat, about as much as we use to

The corn was dried previous to its being measured as above; and some of it ground at the mill two days

afterwards, and the fodder in an arid state.

fifth. Tobacco ground corn failing in spots, in the in. month of June, during a drought, one gallon of rich swamp mud was chopped in, round each hill; after the first rain its effects were very obvious, and the corn which had shewn so great a disparity and backwardness, yielded equal to the other, as in experiment Second above.

Memorandum.-The above mentioned corn, viz. experiment Fourth, was measured the first of March, and the shrinkage found to be one third; there remaining 10 quarts, equal to 3 barrels, 1 bushel, 2 quarts per thousand, or 44 bushels, 2 pecks, and 5 quarts to the

FOR THE AMERICAN FARMER

### ON THE ART OF MAKING AND BOT-TLING CIDER.

Elmwood, Oct. 25, 1819.

sparkling before me, brings to my mind your request, to be informed of the best method to bottle the press, hence some very bad eating apples make cider I have had the satisfaction to furnish my excellent cider. The attention to this subject, i. c. table for 18 years with that article, without any the defacation, is all important, especially the first material interruption, having some always of two separation, for if the first is well timed and comyears bottling on hand.

It would be needless to detail all the experiments I made to save my bottles; however, I will relate with success to get off much of the pumice; ther two that were very promising, which will show that should be spread on the bottom of a flat basket, and

in February with the best of corks, and removed it from one stout blanket. But am satisfied that a to the cellar; after the bottles were filled, they few hair sieves of different fineness, with the coursest were placed in tubs of warm water, and raised to uppermost, placed under the run, would separate full summer heat, and then corked.

Experiment 2. Considering that good corks would begin to stop the air in the neck of the bot- to wash them out; the size of grainy sifters would of Pen Yan, which was produced in the short tle, before they were half driven in, and that a answer, after these the blanket strainer would ren-space of ninety two days. I take the liberty of portion of air would be condensed, and therefore der the cider so pure, that the fermentation would be stating, that on the fifth of June I clanted about greatly endanger the bottles, when the temperature gentle and easily managed for racking, so that the an acre of corn on a spot of ground considered

stopped the perforations, after they were driven in, fining.

with pegs, and sealed all over. ing 1\frac{1}{4} lb., stript from the top, which together is equal 10 282\frac{1}{3} lb. to the thousand, or 344\frac{1}{3} to the acre.

Second. Gathered the first day of October the corn feetinal; every hot day was announced by an explosion in the cellar. Giving over every stratagem, they think it strong; if they bottle it themselves that had not an alteration of the liquor in view, it occurred to me that wines did not burst their pleased to see a kind of sparkling fervor, like the bottles, and that cider was only a low wine, and wine of Solomon, "that moreth iself aright." weakest and most violently fermentative of all common drinks, I resolved to raise the proof of my Third. Gathered first of October, the corn from 20 cider, by the addition of two tea-spoons of French Brandy to each bottle. Since which I have had nn more explosions nor broken hottles, and the cider is improved by the addition. Plumbs or ho dles of blades, weighing 24 lbs., and one bundle of top to raise the proof; for it is only necessary to add a larger quantity of either to make cider into good wine, that will flash in the fire; my method is to 30 gallons, and bottle it in February. If the isininto fine pieces, and placing it in a covered mng with a quart of cider for ten hours or more, in a draw tea-a little scalding of the corks, at the

> But it would be needless to expect cider to be made gond by bottling, it must be pure and well llavored whilst in the cask; and therefore the subiect necessarily involves cider making, on which you have many excellent papers. From what I understand of the making of cider, it appears that the later the apples hang on the trees, the more powerful will be the cider; bence the cider of France and other temperate countries, is said to be more powerful not make good cider for bottling, because of their quickly arriving at perfection.

moment they are to be used, will soften them, so

that they will fit better and be more readily driven

The cleaning of the liquor from the pumice is used. It appears that cider made from sweet ap-MR. SKINNER, - A glass of good cider now ples is much more apt to abound with pumice, whilst the acid and ascerb retain their pumice in plete, the future fermentations will be moderate and the racking effectual. Blankets have been used nothing less than raising the proof of the cider will that placed on the head of the cask. All strainers will require often washing out, and therefore two Experiment 1. I bottled eider of fine quality or three are necessary, all of which may be made great quantities of pumice; they would also require shifting with a second set, and constant attendance of an extraordinary Corn Stalk of Mr. Townsend

rels, 30 quarts, and I pint to the thousand, or 25 was increased, I procured perforated corks and first racking and the isingless would finish the Your's. SILVANUS.

> P. S. Some persons are very much pleased to see cider rush out of the bottle like small beer. they will find their mistake, and, like me, be better

To the Editor of the American Farmer. SIR,

I have just observed in your paper of the 15th instant, a communication from a correspondent in Lexington, Va. upon the subject of fining and bottling cider. Stating therein, that "the best he ever met with, was some years ago at the Indian Queen, which he understood was bottled by a Mr Hillen about 10 miles from that place."-As no other person by the name of Hillen at that time, sold cider in the neighbourhood, I take it for granted that I am the person alluded to. But, sir, there must either have been a mistake, or misapprehension, as to the bottling. I never bottled any for market, but have frequently supplied the cellar of Mr. George Benner of Baltimore, with cider by the quantity, and have no doubt but Mr. Benner has occasionally furnished Mr. Evans, the then landlord at the Indian Queen tavera. Were I to attempt a word of advice to your correspondent on the subject of making cider, it would be to avoid all rotten fruit, leaves &c. pick up his apples as early as possible of mornings, when cold, or, at least cool, and grind them so; wheo ground, strain it through a sifter into a large trough or cistern, let it stand about 2 or 3 hours, until the fine sediment falls to the bottom, then rack it off into clean casks and let it stand and work until the foam begins to dry at the bung; then fill the casks up with eider of the same quality, and stop them as tight as he can with straw bungs, or, if wood bungs, they must have ventilators for fear of bursting. than ours; our summer apples, therefore, would When they become perfectly dry at the bung (if straw) drive a sharp plug into the bung to exclude the air; in November rack it off through flannel into clean casks again, and let it stand till spring for the main thing, when good sound late apples are bottling -I am not sufficiently acquainted with bottling to offer any advice as to the best mode. Yours respectfully.

THOMAS HILLEN.

P. S. Sir, it seems that Farmers, as well as Docters may differ in opinion -- I observed in one of your papers a few months ago, that one of your correspondents had written in commendation of ripplegrass, ribicert, or, (as I think he term'd it) ribbed plantain .- Should the gentleman's crop of this arricle fall short pext year, and it were possible for me to transmit him all my share by mail, I would most cheerfully pay the postage.

> FOR THE AMERICAN FARMER. RAPID CULTURE

> > Baltimore, Oct 15th. 1819.

DEAR SIR-Having observed the notice taken

ver mor, and which had been but imperfectly broken up a few days before. In the first week of August I had the pleasure of eating some fine "roasting ears"; the produce of this corn being about sixty days from the time of planting, many of the stalks had at that time attained the height of eleven feet. This production in a season of unusual drought on land proverbialy poor, and planted at the commencement of the hottest and dryest por tion of the season, has far exceeded my most sanguine expectation, and has been doubly gratify ing in being the result of an experiment made with my fertilizing compost. The mode of planting a better return for the products of agricultural labour was by mixing with the manure half a peck of compost to each load, and then mixing an equal trings lasted, it was the duty of the United States to bulk of the earth of the field with the manure, (that is load for load,, after it was hauled out. Two shovels full of this mixture was thrown into the furrow for each hill, the corn dropped upon it, and covered in the usual way. The part of the sumption; and as other countries are progressing in field, which I planted with manure alone, was deficient in size, and one row (about 100 hills) without either manure or compost, did not produce a them. Such circumstances have happened, and no single perfect ear, and the diminutive size of the loubt will again; but surely they never should be stalks was a kind of burlesque on cultivated Indian Three kinds of seed was used, viz. the white ground seed of the Eastern shore, the large yellow corn of the uplands, and the common yellow corn of this county; against the former a prejudice exists in Baltimore county, and I was assured by some old farmers, that with my late planting and poor land, I would not get an ear of it, notwithstanding it is as forward and more perfect, ireds of thousands, are supported in other countries than the Baltimore corn, which I am inclined to think has been brought down to a dwarf by poor millions of dollars are drained annually out of the land, and poor cultivation; it is consequently pre- United States to pay them ;- to enrich their masters, mature, and imperfect in its formation; but it and support their government. also escapes making a good crop. The frost duct should change also; and the mode in which is less to be feared than the use of poor seed. I that change should take place, was never more obvihave now growing a small square of Canadian ous to any nation, nor more easily effected. But, as corn, which was treated in the same way, and has been observed, we are beings of habit; we freplanted about the 2d. of August, (an experiment for the second crop in one season,) the tips it so;—necessity will correct what reason cannot, and of some of the blossoms appeared in the heginning the correction will be severe in proportion to our obof September, since which I have not seen it. and stinacy I know not whether our increlants are yet circumstances have occurred to prevent me from convinced that carrying away the we: Ith of their own pursning that course of agricultural experiments, country, is a trade that cannot last for ever; or when which I had contemplated. I have therefore only ther they have found by their Legers, that raw materials will not balance the account of manufactured the satisfaction of having produced the means of increasing the product and value of the soil, and from ten to thirty-three per cent., and importations must leave it for others to use them, with the hope, that this communication may furnish some light on them a lesson on this subject I hope however, that the culture of the single article of Indian corn.

A B. MARTIN.

Baltimore, Oct 30th. 1319.

MR. SKINNER,-I take the liberty of sending a few ears of the corn raised on the ground alluded to in my communication of last week I send you one or two ears in the ousk, in order to remark to you, the circumstance of the corn growing entirely constitution of the horse, when caten with his hay.co-sider this corn remarkable. unless connected only trace it to the a pilock, some of which was in the with the circumstances of planting in June, dry

FOR HE AMERICAN FARMER.

#### DOMESTIC INDUSTRY.....Vo. VI. Baltimore, October 23, 1819.

MR. SKIVVER .- That our conduct, as rational be lugs, should be adapted to the circumstances in which proof; yet we are such beings of habit, that we seldom conform to new cocumstances, till compelled by necessity. For a long period after the first settling of this country, agriculture was the primary object of tabour; it being indispensibly necessary for the support of the inhabitants: and for many years after, the oroduce of the soil had become more than sufficient for the home consumption; foreign markets afforded encourage husbandry beyond all other arts. A great soil, and the progressive improvements in agriculture. have created a produce far beyond the domestic con like manner, we cannot expect a profitable foreign market, except when unlavourable seasons, or a state of var may produce a temporary scarcity in some of the plant, affording good pasture. made the basis of any permanent calculations. The abouring class of our population is therefore manifesty too great to be advantageously employed in agriculture alone. It must of course either continue to About under an increasing disadvantage;-a part of I go idle; or get to some other employment. The first would augment our present evils; the second would be still more intollerable; but the third would have a direct tendency to remove our present embarrassments. We have seen what thousands, and hunby working up our raw materials; and also what

Our circumstances having thus changed, our conones; but a series of voyages, on which the loss is which sell twenty-five per cent. below cost, will teach our agricultural interest; -that basis on which the independence, the prosperity, and the real wealth of every nation must depend, is already sonsible that a different system of domestic economy must be adopted.

Yours, &c.

Petersburg. Oct. 31, 1819.

COGITATIVUS.

EXTRACT.-Will you inquire through the American Farmer, into the deleterious effects of Hendock on the through the husk, and exposing the points of the ears if it be innocent let the purble he assured of it - if in pass 3 inches below the teeth, and he curved like a to the weather and ravages of insects. I account for jurious, warn them of their danger. In this section of led runner. To be drawn by a borse attached this, by the husk being formed at a very dry period, able quantities of it, and it requires several years to the eorn afterwards received the benefit of a rain, eradicate it. A few days since a valueble horse of the axle. which filled the grain so rapidly, as to push it be-mine was curiously affect d, and I despated of saving hay that the horse had been eating.

A. B.MARTIN. | tues of the themlock in an early paper.

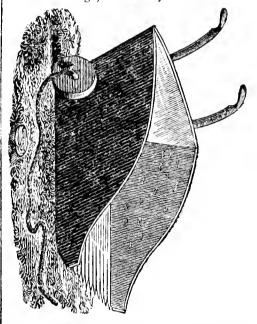
The machine (see bel 10) for gathering the heads of clover, with a view to the collection of seed, is taken from a publication in Pennsylvania, where that matter is well understood—nevertheless we doubt its efficacy, as we apprehend the teeth of the comb would be perpetually cheaking, unless there be some mewe are placed, is a truth too obvious to require any thod, which we do not perceive, of cleaning it, as the heads accumulate.-Edit. Amer. Far.

> To the Philadelphia Society for promoting Agriculture

Having recently seen an implement successfully employed in gathering heads of clover from which to procure seed, I could wish that the description and drawing, herewith transmitted, might be a mean han for that of any other So long as this state of of introducing it to general use, among our Agriultural fellow citizens.

With a machine of this kind a man and horse, can change, however has now tak n place. The vast ex tent of cultivated lands; the fertility of the Western io one day collect the heads of clover from five neres of land; an economy of more than half the time necessary to obtain the crop, in the ordinary method, and in addition to that advantage, a field thus reaped, has left upon it the stem and leaves of

> Respectfully, ROBERTS VAUX. Birwood Lodge, 9th Mo. 3, 1819.



Axle 3 by 4 inches, 4 feet 10 inches long, to accommodate two wheels of 6 inches diameter, upon which secure a comb made as follows: bottom, of linch oak, 3 fect 3 inches broad, I foot 9 inches deep, in which saw 43 teeth 9 inches in length, flat on the top, tapered at the ends, and turned up helow, resembling the fingers of a cradle Back of the comb resting on the axle, I foot 6 inches high, supported by two handles similar to those of a plough; sides sloping towards the front, and to with chains or ropes, which are secured at the ends,

P S. Where, or by whom, the above descriyand the cover of the husk. I should by no means his life. Upon inquiring into the cause, we could bed machine was contrived, I have not learned; the inventor, who ever he he, has conferred a hene-THEO. FEILD. fit upon husbandmen, and is entitled to their acknowgeason, poor land, &c. as before stitled to you. The tiditor will give a drawing and the medical vir-ledgements, especially those who farm on a small? scale, and to whom pasture is important.

# Extracts from a Compendious Diction-| should be allowed green food; but in broken wind ary of the Veterinary Art.

[Continued from No. 31-p. 246.]

BROKEN WIND. A disease to which horses are very liable, and generally produced by bad management either with regard to exercise or diet. As to the cause of broken wind, there have been various opinions; Gibson and Bartlett thought it was often brought on "by mjudicious or hasty feeding young and Wind. horses for sale, by which the growth of the lungs and all the contents within the cliest are so increased, that the cavity of the cliest is not capacious enough should matter form, it is to be treated as an abscess; for them to expand themselves in and perform their functions." Bracken says, "as the asthma in mankind, so a broken wind in horses is produced from thick mucilaginous juices in the windpipe and lungs." From the investigation of Mr. Coleman, it appeared that broken wind is caused by a rupture of some of the air cells of the lungs, in consequence of which the air gets into the cellular membrane. According to Mr. Richard Lawrence, "the most common appearance of the lungs in broken-winded hores is a general thickening of their substance, by which their clasticity is in a great measure destroyed, and their weight specifically increased, at the same time that their capacity for receiving air is diminished." I have examined the lungs of broken winded horses without observing this general thickening of their substance : on the contrary, they have appeared specifically lighter and larger, than in the natural state. Two horses that were purchased for the purpose of making experiments, and so badly broken-winded as to be uscless, I particularly remarked In the first, the lungs were unusually large, and there was evidently a considerable quantity of air in the cellular membrane, but it was not ascertained whether this air had escaped from the air cells, or had been generated within the common cellular membrane of the lungs. The other fiorse was kept about a month in a field where there was no water and very little grass. When taken up he appeared perfectly free from the disorder; he wa however shot, and upon examining the lungs, they had not the slightest appearance of disease. About tweive months ago I purchased a horse completely broken-winded; he had been for a considerable time the property of a gentiemsn who valued him highly, but his wind became so bad as to render him useless, therefore he was sold; the purchaser finding him in capable of working after a short trial, was glad to get rid of him for a small sum. He then lell into my hands By allowing him only a small quantity of hay sprinkled with water, giving cold bran mashes, mixed with a moderate quantity of oats, and only a small quantity of water, taking care at the same time that he had regular but moderate exercise, his wind became gradually better, and at this time he appears perfectly free from the complaint. These cases, with several of a similar kind I have met with, seem to an alteration or disease in the structure of the lungs; but upon some morbid secretion in the branches of the windpipe or air cells, or perhaps from their becoming emphysematous. See Emphysema.

It is stated in R. es's Cyclopædia, under the head Broken Wind, "that after opening more than ten broken-winded borses, the lungs were uniformly found emphysematous." This complaint is generally allow ed to be incurable; but it may often be alleviated, and sometimes in such a degree as to be scarcely perceptible. Constant attention however is necessary with regard to his food, &c. which should be rather of an opening kind, such as bran mashes, with a quantity of oats proportioned to his work; green food may also be given in moderate quantity or carrots. When r.ene., his exercise should at first be moderate, and he should not be taken out immediately after feeding. I have seen small doses of diuretic medicine given of the cattle in the gutters, that they might conceive chased me to buck me. d dy, or every other day for a short time, so as to on- among the rods. crease the horse's urine in a moderate degree, afford great relief; such medicines however, must not be given so as to cause and keep up exercise staling, as the kidneys might thereby be injured. ttorses that cattle, and maid servents, and men servants, and ca-Mave but indifferent appetites either for hay or water mels and asses.

this is not often the case; more commonly they have almost constant thirst, and unless prevented by a muzzle, will cat even their litter As far as my ob- in the Marine Court and exhibits a spirit of litigaservation goes, this disease most commonly happens tion for trifling objects, which is by no means creto horses that have such voracious appetites; wherever ditable to a peaceful community. The time has therefore this is observed, the horse should be limited been when law had many terrors, and various sacriin his diet, and if he shows any disposition to cat his litter, a secure muzzle must be employed. See Congh,

gative, and forment the part, or apply a poultice . jury is unprofitably expended in attending to such but if a hard callous swelling remain, an attempt should be made to disperse it by rubbing it well with some stimulating embrocation, such as

Soap Imiment, four ounces. Liquid ammonia, one ounce -- or,

Campher, Olf of origanum, of each two drams.

Olive oil, two ounces

Liquid ammonia, one ounce .- Mix

Should these embrocations fail, recourse must be had to a blister. See Treatise on Veterinary Medicine Bull, to make Cows take. A mischievous practice

has been recommended by old Markham, and copied by Clatter and Skerrett, of giving for this purpose half that the present action was to recover from Streit, an ounce of spanish flies, with grains of Paradise, &c damage for taking out of Streitoff's field a "feburely common sense should dictate to every one, that the only safe and effectual method of accomplishing this end is to bring the annimal to a perfect state of health and condition.

Note by the Editor of the Farmer

\* It is said that if a bult find a cow ned fast by the head, he will take advantage of it to seize without her consent, favours which she would not have granted to his most carnest importunities. If that be the case it is of course, practicable to ensure calves at any given season. We do not find this fact mentioned, however, among the curious experiments of Jacob on the flocks of Laban :-

And he (Laban) aid, What shall I give thee? And Jacob said, Thou shalt not give me any thing: if thou wilt do this thing for me, I will again feed and keep thy

lflock:

I will pass through all thy flock to day, removing from thence all the speckled and spotted cattle, and all the brown cattle among the sheep, and the spotted and

come, when it shall come for my hire before thy face : every one that is not speckled and spotted among the goats, and brown among the sheep, that shall be counted stolen with me.

And Laban said, Behold, I would it might be accord-

ing to thy word.

And he removed that day the he goats that were ringstraked and spotted, and all the she goats that were tiff, and that about six weeks since she strayed speckled and spotted, and every one that had some white way and was missing about two weeks, when he prove, that broken wind does not always depend on in it, and all the brown among the sheep, and gave them found her on the road, he then cut her ear and into the hands of his sons

And he set three days' journey betwirt himself and Jacob: and Jacob fed the rest of Laban's flocks.

T And Jacob took him rods of green poplar, and of the hazel and chesnut tree; and pilled white strakes in away she bucked him down. hem, and made the white appear which was in the rods.

And he set the rods which he had pilled before the flocks in the gutters in the watering troughs when the flocks came to drink, that they should conceive when to be your brother's-by what marks? they came to drink

forth cattle ringstraked, speckled, and spotted.

And Jacob did separate the lambs, and set the faces of the flocks toward the ringstraked, and all the brown in the flock of Laban; and he put his own flocks by Streit is your brother's? themselve; and put them not unto Laban's cattle.

And it came to pass, whensoever the stronger cattle did conceive, that Jacob laid the rods before the eyes

But when the cattle were feeble. he put them not in : so the feeble were Laban's, and the stronger Jacob

And the man increased exceedingly, and had much

### LAW INTELLIGENCE.

The following case was tried about a month ago. fices have been submitted to rather than going to law, but now the most trivial trespass and dispute Burises. In severe bruises, bleed and give a pur- are carried into court, and the time of judge and Reformation on this head is much wanted.

> Reported for the National Advocate. Marine Court, September 30, 1819.

Present, Mr. Justice Drake. Streitoff vs. Streit.

An action for taking out of plaintiff's field a heifer, and damages sustained thereon to his dainage \$100.

J. Anthon, counsel for plaint ff.

G. Wilson, for defendant.

Anthon opened the cause to the jury, and stated male" beifer, which the said Streitoff claims as

It appears that some time since, Streit came to Streitoff's field in company with Jos. Madden a. constable, and cut the heifer loose, which was tied in Streitoff 's field, and was about taking her away, when Streitoff demanded of him his authority for taking it, upon which Madden arrested Streitoff on a warrant for fifty-six cents due Streit-a scuffle eusued, and the heifer taking an active part in the affair bucked Streit down; Streit and Maddenhowever succeeded in bearing the heifer off-Streit then sued the plaintiff in this case before Mr. Justice Flanagan, of the 9th ward, for keeping the heifer to his damage \$35. On this trial, there was examined on the part of the plaintiff, Streit, 21 witnesses, and on the part of the defendant, speckled among the goats: and of such shall be my hire. Streitoff, 16 witnesses. The jury gave a verdict So shall my righted is nesses answer for me in time to in favor of the plaintiff, Streit, \$6.56.

The action now brought was to recover damages from Streit, for taking the heifer out of Streitoff's

Heavy Streitoff being sworn, stated that the heifer in question belongs to his brother, the plaintiff, and that about six weeks since she strayed brought her to his brother's field, and when she was there about one week, the defendant, Streit, came and took her away, and that in taking her

Cross examined by Wilson, counse' for defendant. Q. Mr. Streitoff-How do you know this heifer

A By her having her right horn broken, a white And the flocks conceived before the rods, and brought spot on her belly, and because she was a very wild and bucking heifer.

Q Are you sure the beifer now in possession of

A. I am sure of it -- I ought to know it, for I used to feed it every day, and many a time it has .

The counsel in examining this witness, was very minute in his questions, which bothered the witness so much as to suppose he was intoxicated.

Q Streit ff-How many small glasses of rum have you drank to-day?

A. By witness putting on a recolicating mood.) [had been given

By the C urt Mr Wilson, it is quite unnecessary to ask the witness my such questions.

heifer?

mother.

Q Was it as fat as its mother ?

A. I do not think it was,

Q. How large was the white spot on the belly?

A About the size of my hand.

Q. Where was the white spot ?

A. Near the navel.

re you sure it is your brother's heifer ?

A. I am sure of it.

The next witness was George Streitoff, the father of the plantiff, who stated that he took the hei-

### Cross cramined by Wilson.

question is your son's?

A I am sure of it.

Q By what mark?

A The white spot on its helly.

Q Where was the white sput?

A. Near the navel.

Q. How far from the navel?

A. Not quite one hundred yards, if I am not mistaken.-(Loud laugh)

The plantiff then produced about a dozen persons, who all testified it was his heifer-that it had a white spot on its helly, broken horn, and that it was a bucking heifer and that they had seen it very of. often.

Anthon here rested the case on the part of the plaintiff.

Wilson, on the part of the defendant, examined twenty-five persons, who a'l swore that the heifer belonged to Streil, that it was a very tame heifer, that they never perceived any white spot on its bel ly, that its horn was a little broke, and they were sure it was his heifer, and that they never knew Streitoff had a heifer of that description.

Mr Justice Clanagan, testified that the cause was tried before him, and that he saw the heiferthat it was very tame, and he did not perceive the white spot on its belly. The counsel on the part of the plaintiff was very severe with Mr. Flanagao, and as the Justice thought that he knew more about law than the counsel he got a little angry, when the counsel told him not to ride quite so high a booby.

A. By aitness putting on a recollecting mood.) had been given It was proposed to have no a very userin practice amongst the correspondence of the Editor. It is that of making inquiry, when they my again as half.

It was proposed to have no a very userin practice amongst the correspondence of the Editor. It is that of making inquiry, when they might have occasion to write to him, as to the mode of doing any particular things in those districts of country, when they might have occasion to write to him, as to the mode of doing any particular things in those districts of country, to visit the heifer; they accordingly proceeded in where they are known to have attained the greatest wagons, accompanied by the parties, to view the perfection, in the matter inquired about. heifer, which was at defendant's farm, about four Wilson You may retire Streifoff. | miles from this city | While the jury were example in the Union, and there | Streifoff | Thank you, sir-I'll get out as soon ining the heifer, the plantiff tried to make it buck, publick spirit, to give the information sought for. Thus, as I can, for I am as sober as you, or any one in but it would not; for lo! it was a very tame hei-for example, a subscriber at Annapolis intimates, that for, and would not injure any one-the jury return-The next witness on the part of the plaintiff ed to court and gave a verdict in favour of the de-The next witness on the part of the plaintiffed to court and gave a verdict in favour of the dethod of cultivoting onions. By presenting his intimation
was his sister, (Mary Streiteff, a fine, large, ful fendant. The trial lasted two days, and it appears to our New England subscribers, we were enabled in country girl) The deposed first the heiter was her that all the old mon and women were trumpeted up in our last paper to present the minute and well pre-brother's, that she had raised t from a calf, and for 10 miles around the country as witnesses. The MEON FRANCIS Esq. of New London Again, a conbrother's, that she had raised t from a calf, and for 10 miles around the country as witnesses. The that it was a very wild heifer—had a white spot on costs of prosecution were six times the value of the heifer; and as the counsel for the plaintiff observed the best method of making and bottling eider, and men-Q By Welson. What was the color of the that as her value was actually about \$0, he had not tions some he drank many years since, made by Mn; the least doubt, but that it would be valued at fifty Hiller of this county. His desire was communicated A. It was a brindle heifer, and looked like its dollars before the trial was over, for some swore it through the Farmer, and accordingly in this number the is presented, as we trust in the most clear and was worth, S, 10, 15, 20, 25, 30 dollars—so little satisfactory manner, with every particular which is did they know about the value of bucking heifers.

FRUM BORDLEY'S RUSBANDRY.

1. Portages, by Col Paynter.

Officers mess.

Three pounds of the sticking piece of beef, or . part of a shin, or any coarse place. Buil it in eleven quarts of water, two hours. Then add a pound Scotch barley, and boil it four hours more, in which time add fer from its mother when it was a week old, and potatoes, six pounds, onions, half a pound, and some gave it to his son—that it is a wild bucking heifer, pursicy, unone or savory, perper and one, and has a white spot on its belly, and a broken horn other vegetable, and half a point of bacon, may be obtained, the bacon cut into small bits. It gives three gave it to his son-that it is a wild bucking heifer, parsley, thyme or savory, pepper and salt, with gallons of pottage. Boil it over a slow fire, to be thick It satisfied twenty sold.ers, without bread; the nature Q. Mr. Streitoff—Are you sare the heifer in of the food not requiring any. Col. Paynter adds this time in all Baltimore, a single gallon of LAMP that the nen in the barracks fixed it very much; and OIL for sale—we will agree not to dispute whether it the officers introduced it into their mess, and found be whale oil, or fish oil, so the gentlemen grocers will it excellent. Its cost would be 20 cents; or 15 mills " give us but light."

### A preparative for Pottages. Paynt r.

It may be applied as above, or be eaten in mess: an excellent dish. A pound of Scotch bariey is builed, and draining the water from it, is set to cool in an carthen pan. A pound of bacon is boiled in two quarts of water. A few minutes before it is taken of the fire, put implement of domestic invention, or taken from fo-in the boiled barley, when it will immediately fall to reign publications. This would greatly enhance the vater. A few minutes before it is taken off the fire, put the juices of the bacon, nearly. The remaining water enhance its value, and the Editor is very anxious to s then poured off A few orions or lerks should be boiled with the bacon and herbs. Season with pepper and salt A pound of Scotch barley boiled four hours, and coo'ed in a pan, becomes a sort of jelly; which being put into boiling water, instantly falls to pieces. When the pound of barles is boiled, cooled, and congulased, the congulum weighs four pounds. This is an exsellent nourishing food, seasoned with sugar, or made into a pottage.

Mr. Lettsom then gives, from Doctor Johnson of Hassar hospital, a number of chosen messes; the resalt of experiments on diet, made at the instance of Admiral Waldgrave, in 1795.

[ To be continued ]

#### THE FARMER.

BALTIMORE, FRIDAY, NOVEMBER 5, 1819.

It is quite notorious that the art of cultivating the soil and of preparing its products, for consumption, in The jury then informed the court, that unless the most advantageous and profitable manner, has been

These inquiries we throw into the Farmer, which While the jury were exam-ire not wanting gentlemen of sufficient politeness and it would be useful to ascertain and publish, for the information of southern readers, the New England menecessary to be known, in a most important and valuable branch of domestic economy. Mr. HILLEN, and the author of Sylvanus, are entitled to the best thanks of our subscribers, and we have no doubt will receive them

It is among the noble influences of agricultutre that she opens the hearts of her votaries, and render them benevolent and disingenuous. They have no cre of trade, and are strangers to that heart-burning jeanusy, which rivalry creates among the followers of other professions. They are always ready to impart, with honorable frankness and pleasure, discoveries which have been made by a long and toilsome course of labour and experiment-may such ever be the happy influence of the happiest of all vocations.

We suppose it may be mentioned, as a singu-

We respectfully request those who have genes rously taken an interest in the success of this paper, to use their influence to add to our list of subscribersif each subscriber we have now would only add one name more, we could promise them an engraving in every number of some useful machine or agricultural accomplish it if possible.

Mr. Skinner,-Col. T. Tenant has imported a quantity of cotton in the seed, from Carthagena.

As this is generally fine cotton, and a wish is expressed to obtain seed, for our southern states, from South America—may it not be well to attend to this pareel, as it is very rare to receive it here uncleaned. JAS. H. M'CULLOCH.

### Present Prices of Country Produce in this Market.

Beef, S to 10 ets .- Veal, 6 to 10 ets .- Mutton 6 to 8 ets - t'hickens, per doz. \$2 50-Butter, 31 ets.-Eggs, per doz. 25 ets -- Irish potatoes, per bushel, 75 ets.-Sweet potatoes, \$1--Turnips, per peck, 121 cts.--Meal, per cwt, \$2--Best Bullocks, \$6 to 6 50--Good beef, brought in wagons to the market, per side, 5 ets. a pound-Flour, from the wagons, \$5 872-Whiskey, 38 cts.—Hay, \$17 to 20 per bundred - Straw, \$10 to 12.

The Editor of the American Farmer solicits information as to the date of the establishment of all the The jury then informed the court, that unless they saw the heifer, they could not agree in consequence of the very contradictory evidence which it is a consciousness of this fact, which has given rise this paper.

# PRICES CURRENT

## AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

		y Int	
ARTICLES.	l1		PRICES
EEF, Northern mess	051	17 15	1
No 1		13 50	nl l
No 2	њ.	10	
Bacon,	13.	3	1 37 1-2
Butter, - Coffee, first quality,	]	3	
second do		5	1 1
Cotton,		2	
Twist, No. 5,		5	
No. 6 a 10, -	1	5	
No. 11 a 20,	1	6	0 1 30
No. 20 a 30,	ļ	3	
Chocolate, No. 1,	1	1 -	8
No. 2,	1		5
No. 3,	box	1	0 22
Candles, mould,	10012		8 19
dipt,	1	4	5 scarce
spermaceti,	lb.	1	9 10
Cheese, American,		(	65
Feathers, Fish, cod, dry	qtl.		50
herrings, Susquenannan,	bbl.		75 retail
mackarel, No. 1 a 3	1	9	12
shad, trimmed,	1	1	75 7 87
Flour, superfine,	1,	6	50 6
fine,	- bbl.	5 4	· : L _
middlings,	1	4	
rye,	005	k none	
Flaxseed, rough,	bus	. ! .	
cleaned,	lb.	do	
Flax,	1.0.		12 13
Hides, dryed,	i		12 13
Hogs lard, Leather, soal,	Į.	ì	25 80
Molasses, Havana,	gal	. 62	1-2 7.
New Orleans,		1	75
sugar house, -	. 1	1	
Oil spermoceti.	ga		50
PORK, mess or 1st quality,	bh		
prime 2d do	.	16	
cargo 3d do. •		14	a 15
Plaster,	toi hb		75
ground	- lb.		6
Rice, Spirits, Brandy, French, 4th pro-	oofga	i. i 2	3
peach, 4th pre	oof	1	25 1 5
apple, 1st pr		- 1	75
Gin, Holland, 1st pr		1	50
do. 4th pr		}	
do. N. England	l	1.	50
Rum, Iamaica.		1 '	75 2
American, 1st pr			50 62 1
Whiskey, 1st pr	- It	.	18
Soap, American, white, - do. brown, -	-	"	9
do. prown,	- 1		19
Sugars, Havana, white,	- 1	11	5 50 16
brown,	-	i	25
lump,	ի	).	20 a
Salt, St. Ubes,	- b	ս .	70
Liverpool, ground, -	- 1	1	75 I
Shot all sizes.		b.	12
TOBACCO, Virginia fat, -	- 4		7 50
do midding:	9,	- 1	6 50 5 5
Rappahaonock,	- 1	- 1	6 50 7
Kentucky, -	a h	ъ.	25
small twist, manufacture	, p	p.	50
pound do.	. [	- 1	63
TBAS, Bohea Southong,	- h	ь.	75 a
Hyson Skin -	. 1	1	75 a
	- 1	1	1 25 G
	. 1	1	1 75
Young Hyson, -			80
Young Hyson,	- 1		
Young Hyson, Imperial, - WOOL, Mering, clean, unwashed,	-	1	40
Young Hyson, Imperial, - WOOL, Merino, clean, unwashed, crossed, clean,			65
Young Hyson, Imperial, WOOL, Merino, clean, unwashed, crossed, clean, unwashed,	-		65 35
Young Hyson, Imperial, WOOL, Merino, clean, unwashed, crossed, clean, unwashed, common country, clea	n, ashed		65

### POOR RICHARD'S ALMANAC.

The way to wealth, as clearly shown in the Preface of Improved.

(Continued from page 248)

' Methinks I hear some of you say, " must a man af ford himself no leisure?" I will tell thee, my friend finery on the back, have gone with a hungry belly, and what poor Richard says; "employ thy time well, if half starved their families; "silks and satins, scarlet thou meanest to gain leisure; and since thou are not and velvets, put out the kitchen fire," as poor R ch-" Fly pleasures, and they will follow you. The dilisheep and a cow, every one bids me good-morrow."

'Il But with our industry we must likewise be steady, settled, and careful, and oversee our own afthers; for, as poor Richard says,

"I never saw an oft-removed tree, Nor yet an oft-removed family, That throve so well as those that settled be."

And again, " three removes is as bad as a fire;" and again " keep thy shop, and thy shop will keep thee;" and again, "if you would have your business done, go, it not, send." And again.

"He that by the plough would thrive, Himself must either hold or drive."

And again, "the eye of a master will do more work than both his hands:" and again, "want of care does us more damage than want of knowledge; and again, "not to oversee workmen, is to leave them your purse open." Trusting too much to other's care is the ruin of many; for, "in the affairs of this serve yourself. A little neglect may breed great mischief; for want of a nail the shoe was lost, and for want of a shoe the horse was lost, and for want of a horse the rider was lost," being overtaken and slain by the enemy; all for want of a little care about a horse-shoe nail.

'III. So much for industry, my friends, and atten ion to one's own business; but to these we must add frugality, if we would make our industry more certainly successful. A man may, if he knows not how to save as he gets, "keep his nose all his life to the grindstone, and die not worth a groat at last. A fat katchen makes a lean wil;" and

"Many estates are spent in the getting, Since women for tea facsook spinning and knitting, And men for punch forsook hewing and splitting,"

"If you would be wealthy, think of saving, as well as of getting. The Indies have not made Spain rich because her outgoes are greater than her incomes?

Away then, with your expensive follies, and you will not then have so much caose to complain of hare times, heavy taxes, and chargeable families; for

a Women and wine, game and deceit,
Make the wealth small, and the want great."

and further, "what maintains one vice, would bring up two children." You may think, perhaps, that a little tea, or a little punch now and then, diet a little more costly, clothes a little finer, and a little enter 50 tainment now and then, can be no great matter; but 50 reniember, " many a little makes a mickle " Bewar 37 of little expenses; "a small leak will sink a great slup," as poor Richard says; and ag. in, " who dain ties love, shall beggars prove;" and moreover, " foot 100 make feasts and wise men eat them?

there you are all got together to this sale of fine rice and nick-nacks. You call them goods, but if you do not take care, they will prove evils to some of you You expect they will be sold cheap, and perhaps they may, for less than they cost; but if you have no occa ion for them, they must be dear to you Remember what poor R chard says, "boy what thou hast no need agon, "at a gr at penny-worth pause a white." And means, that nerhans the about means, that perhaps the cheapness is apparent only,

and not real; or the hargain by straitening thee in thy husiness, may do thee more harm than good For it an old Pennsylvania Almanac, intitled, Poor Richard buying good pennyworths." Again, "it is foolish to lay out money in a purchase of repentance;" and yet this folly is practised every day at auctions, for want of minding the almanac. Many a one, for the sake of sure of a minute, throw not away an hour." Leisure ard says. These are not the necessaries of life, they is time for doing something useful; this leisure the can scarcely be called the conveniences; and yet, on-diligent man will obtain, but the lazy man never; by because they look pretty, how many want to have for "a life of leisure and a life of laziness are two them? By these and other extravagancies, the genthings. Many, without labor, would live by their teel are reduced to poverty, and forced to borrow of wits only, but they break for want of stock;" where-those wohm they formerly despised but who, through as industry gives comfort, and plenty, and respect industry and frugality, have maintained their standing; in which case it appears plainly, that "a ploughman on gent spinner has a large shilt; and now I have a his legs is higher than a gentleman on his knees," as sheep and a cow, every one bids me good-morrow."

poor Ri hard says. Perhaps they have had a small estate left them, which they knew not the getting of; they think "it is day, and it will never be night;" that a little to be spent out of so much is not worth minding; but always taking out of the meal-tub, and never putting in soon comes to the bottom," as poor Richard says: and then, "when the well is dry they know the worth of water." But this they might have known before, if they had taken his advice : " if you would know the value of money go and try to borrow some; for he that goes a borrowing goes a sorrowing," as poor Bichard says; and indeed so does he that lends to such people, when he goes to get it again. Poor Dick further advises, and says,

"Fond pride o' dress is sure a curse, Ere fancy you consult, consult your purse."

And again, "pride is as loud a beggar as want, and a great deal more saucy". When you have bought one fine thing, you must buy ten more, that your appearworld, men are saved, not by faith but by the want of ance may be all of a piece; but oor Dick says, "it is it;" but a man's own care is profitable; for, "if you easier to suppress the first desire than to satisfy an would have a faithful servant, and one that you like, that follow it:" and it is as truly folly for the poor to ape the rich, as for the frog to swell in order to equal the ox

a Vessels large may venture more, But little boars should keep near shore.

It is, however a folly soon punished; for, as poar Richard says, "pride that dines on vanity, sups on contempt; pride breakfasted with plenty, dined with poverty, and supped with infamy." And, after all of what use is this pride of appearance, for which so much is risked so much is suffered? It cannot promate health, nor ease pain; it makes no increase of merit in the person; it creates envy, it hastens misfortune.

[ To be continued.]

ADVERTISEMENTS, which are, in their nature and objects suited to a paper of this sort, such as, the sales of land, seed, live stock, implements of husbandry, new inventions, &c. &c., will be inserted ince only, at the rate of \$1 per square, to be paid in advance. The very extensive circulation of this paper among landed men, throughout the United States, makes it an eligible medium for giving such public notices, and one publication is as good as forty, unless in cases where the law prescribes a greater number of

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# AMERICAN FARMER.

# RURAL ECONOMY, INTERNAL IMPRO VEMENTS, NEWS, PRICES CURRETT.

" O fortunates nimium sua si bona norint " Agricolus." . . . . VIEC.

Vol. I.

# BALTIMORE, FRIDAY, NOVEMBER 12, 1819.

Num. 33.

### AGRICULTURAL.

FROM THE RICHMOND ENQUIRER.

Agricultural Society of Virginia.

Paper communicated by the President, Col. J. TAYLOR, and ordered to be printed.

#### ARTIFICIAL GRASSES.

matter-hence, the cheapest and most ample sup-of bread-stuff, as to have obtained a preference, at most incredulous. plies of these renovators is a primary subject; as the expense of considerable importations of the lat- The general conclusion, that grazing ruins land, axiom, and prove that the fertility of old countries In England, the rent of fine artificial meadows, ends are produced bears a strict relation to the use made of it sometimes extends to twenty dollars an acre, rare- 1 The phrase "artificial grasses" implies a the chief means for its practical effect. Whilst a rate of rent here and in England. It must be our of spontaneous production. country is fresh and the soil saturated with vegeta- best land, which would rent at one dollar an acre of view, the means for preserving the good, and im- rally ruined In England, much of the arable former when grazed; from protecting the ground proving the exhausted. But when it has passed land rents at about ten dollars an acre, and its against heat in summer and cold in winter; from of adopting the only mode in existence for restorulture of grain Now when we see the hest grazreason of the mass of vegetable matter mingled with
ing its fertility, lies before the eyes of its inhabiing land there, renting higher than the best arable it, that it can bear in a maked state; by which its tants. Excepting a few strips of alluvion land, land, and their farms renting ten times higher that there is no cultivated country, in which a depen-lours, does it not plainly follow, that both a great than in Virginia. A thin soil, exposed to hot and arise from the culture of artificial grasses; and grass, than the whole without such culture. length rendered them even unable to raise working circumstance? This conclusion is warranted by putable. animals for their own cultivation, and a sufficient the fact, that the longer the term of a lease is, the 3. Artificial grasses enable the farmer to raise grasses is the chief remedy, it can only be over-looked, because it is not embellished by the glit-Let us now resort to indigenous facplain garb of reason and experience

Before the effects produced by a skilful culture grasses are cultivated. There is no doubt, but artificial grasses, the manure they cause domestick of the artificial grasses, are enumerated, let us take that here, as abroad, profit is the only permanent animals to produce, will more than repay in the im-

a glance at them, collectively, in other countries. I basis of price and rent: and as the highest price In Holland, where the cultivation of grass is generally preferred to that of bread, land sells higher as land, without having its price enhanced by adventitious circumstances, than in any other country, grasses, is known to be so much richer and protections. The industrious and profit-loving Dutch, choose ductive, both of grain and meat, than lends not so rather to import, than to raise their own bread-nursed, as to pay labor far better, without taking stuff, at the expense of diminishing the culture of into the account a long list of other benefits arising artificial grasses. They are as little likely as any from this system of culture. The most productive It is universally agreed, that a constant impo-people in the world, to make an election by which bread-stoff farms, are those whereon grain is raised verishment of land must ensue from tillage, without they would lose money. In England, the cultiva- on grass lays. Of this fact, the slightest observathe renovation produced by manure and vegetable tion of grass is so much more profitable, than that tion, experience or reflection, would convince the

neither the improvement nor preservation of the ter. The bearings of this fact are weighty. Hay as we know from experience, when applied to nasoil can be effected without using the means. It and butcher's meat in England, are nearly of the tural grasses only, but enriches it when combined was seen as early as in the time of Columella, that the efforts of nature to furnish us with these means, without the aid of culture and art, were incompetent to the end; and nearly equivalent in value, to glish farmers prefer raising artificial grasses, to love their country or themselves, to inquire after the spontaneous supply of food by the wilderness, raising wheat. Again, the rent as well as price of the practical modes of a system, which experimencompared with the supply from industry and culti-land, is constantly highest in those countries, where tally enciched us both, and solicits an attention to vation. Writers reason from this discovery as an the culture of artificial grasses is pushed farthest. the distinct items of profit, by which these desirable

Egypt itself owes its fertility to its annual alluvion by diminishes to ten, and is never as low as the rent selection from the grainineous family, and a culture manuring. Thus the culture of artificial grasses of adjoining arable land, however good. As the by human art, of the kinds best adapted to the soil attracted great attention, wherever a system of rate of rent is settled by the rate of prolit, it foll and climate of a country, in preference to a reliagriculture existed, worthy of any degree of com- lows that even there, where the prices of meat and lance upon the grasses produced naturally. The mendation; it being seen that the prosperity of na- hay approach much nearer to our prices than the great value of this selection, is illustrated by the tions, as well as of farmers, was evidently graduated price of wheat, it is most profitable to raise the contrast between the crab of the wilderness, and by the degrees of skill and industry, with which articles of inferior price. Much light may also be the cultivated pippin of the orchard; or by a comthis axiom was practised upon; and that they were extracted, from a comparison between the general parison between the esculents of a garden and those

2. An improvement of the soil by the culture of ble manure, it constitutes a temporary case; and for a term of twenty one years; and even at this artificial grasses, arises from the vegetable matter a vast extent of uncleared lands, will long keep out low rent, both the land and the tenant are gene- of both root and top, when ungrazed; from the the vigor of youth, and exhibits the marks of old average rent is about six. But there, the culture producing food to raise animal manure; from renage, the alternative of reducing it to barrenness, or of artificial grasses, is invariably mingled with the dering the ground fit to bear deeper ploughing, by soil is deepened, and from saving four fifths of the firm from the hoof and the tooth, by making one dence upon the natural grasses is more hopeless profit and a vast improvement of the soil, must lifth far more adequate to supply the demand for dry summers, not only prevents our lands from that the difference in rent between their farms and profit arising from this improvement of land by the clothing and nourishing themselves, but has at ours, is in great measure produced by the latter use of artificial grasses, is exhaustless and incom-

supply of meat, milk and butter for their own culti- higher is the rent there, and lower here; hecause meats of all kinds, for his own use or for markets valors A remedy for their own cultivators. A the tenant in one case, calculates upon a mode of of the best quality, in the cheapest modes; and to remedy for this state of things, is necessary to stop tillage which will improve the land; and in the increase the size of all animals destined to sloughthe emigration from Virginia, and to prevent its other, upon its becoming poorer. What but the ter or labour The latter, by being raised in the ultimate depopulation. If the culture of artificial use of artificial grasses, and their exclusion, has climate where they are to work, are hardier, healthier, and better adapted for their employments. Let us now resort to indigenous facts. Lands And whilst the farmer saves the expense of purtering ornaments of novelty, and only assumes the sell and rent higher in the United States, in pro-, chasing sorry meat and teams, he gets good withportion to the extent and skill with which artificial out expense; because by a skilful management of

provement of soil and increase of crops, the expense they bestow, is discernible in their slow growt of their maintenance. This item of profit is too until the wheat crop is perfected; whereas the animportant to be hastily passed over. Men chiefly muals often grow as rapidly as the wheat itself, subsist upon grain and meat; brutes, upon grass, There are many weighty items of profit belonging green or dry

The difference between the expense to the labour-saving article, by the culture of perof cultivating an acre of grain and one of grass is rennial grasses. By diminishing arable space, and consequently most worthy of selection. inconsiderable, and yet the latter will raise far more whilst the crop is increased, the diminished space meat, butter, tallow, leather, and wool. Let any consumes less labour. From a division of the ob farmer calculate the expense of supplying himself jects of labour, a succession of employments en-that it is speedily destroyed by grazing; bearing, with these articles, in the present mode, even ex-sues, enabling a farmer to prevent either from suf-however, that of hogs the longest; that in our cluding its heaviest item, (that of injury to the feriog by the want of cultivation in due season warm and dry summers, it soon perishes without land, and he would probably discover that most or For instance, a full crop of corn and wheat, or a being grazed, especially on sould soils; that it is all of them he raises cost him three times their crop equal to the whole labour on a farm, is the difficult to be made into hay, and that its hay can market value. The lass however upon what he consequence of comparing labour with space; and only be preserved by particular exertions. It stands, sells is triffling, compared with the loss upon what a great demand of both crops for labour at the same however, hitherto unrivalled in its capacity to enhe uses; because he consequence much and sells little period, especially if aggravated by unpropitious ruch the ground, if left uncut to be turned in by the When the temporary supplies from the western weather, generally produces some neglect, and ofcountry diminish or fail, the evils attending upon ten a considerable loss. By diminishing space, not especially if grazed, is also liable to an early death ; domestick stocks occupy the precise ground occu- proving occupations. Thus the losses accruing ger, it hears grazing better, its leaves are not so pied by mankind, when excluded from the artificial both from a surplus of labour at one season, and hable to be sunburnt, it resists invaders much more

it. On such, the wheat which follows corn, though and pulverise it, highly prejudicial to the crop. vegetation. Hence in the culture of corn upon a ing the latter, will generally exceed that of manur-rish.

our present mode of raising stocks, will require no only without diminishing, but actually increasing to be eaten out by broomstraw, to have its leaves proof. The arts of agriculture are as necessary to produce, these crops will be more manageable by burnt and dried by the sun before it is fit to be improve and increase the sustenance of beasts as the labour, and receive a better cultivation. And cut; and to ripen so ate as to incommode the that of men. Grass being the basis of food in the the time saved by this diminution of space, is more-wheat harvest, without possessing the quality of case of stocks, as bread-stuff is in the case of man, over profitably employed early in the spring, in ap-waiting long for the seythe. In the section of Virthat made of obtaining it which produces the most plying manure and sowing grass seeds; previously ginia below the mountains, if must also be assigned and best, with the least injury to the land, and from to the wheat harvest, in making hay; in autumn, to the class of low land grasses. The red top, or the smallest space, is entitled to a preference, in ditching and draining, fencing and stubbing; and herd's grass, as it is indiscriminately called, is su-Without the cultivation of artificial grasses, our at all times in a variety of less important, but im-sperior to timothy in many respects. It lasts lonmodes of raising bread-stuff, and experience the from its deficiency at another, are avoided. Some powerfully-sown, mixed with timothy, it casts fate of a state of agriculture, as to them, uncivilized. labour is saved by the effect of the roots and tops out the latter in two or three years, and although 4. The artificial grasses produce a considerable of perennial grasses, to keep the ground loose and it ripens about the same time, it waits longer for the profit by saving labour. If the labour applied to friable; and much, after it is thrown into high scythe, without sustaining any considerable injury. an acre enriched by artificial grass, was equal to ridges of five and an half feet width, because when This grass, like timothy, is better adapted to rethat expended upon an impoverished acre, a vast the ridges are reversed, very deep ploughing is claimed low lands than to high, though it succeeds saving would still result from the difference of the more easily practicable, by turning the earth back on the latter better than timothy. The best crop; as the expense of labour must be computed into the furrows without working at all on the space grass which I have tried, in many respects, is one in relation to its produce. But the fact is, that these furrows occupy. By the friability of the commonly called "the high land meadow oat." I the poor land requires the most labour, whilst it ground, resulting from a great quantity of vegeta- have had no means of ascertaining whether it is a produces the worst crop, because being filled with ble fibres, we are also secured against its baking, species of rye grass, or of the avena pratenris, or seeds of worthless or prenicious annual grasses or and save the labour necessary in that event, for neither, nor wheree it derived the apellation "Peweeds, and being incapable of bearing a ploughing crumbling or reducing it again into a proper state ruvian," by which I have heard it distinguished. sufficiently deep to deposite these seeds beyond the of vegetation. Naked ground possesses neither of With its qualities 1 am better acquainted, having reach of vegetation, it requires double the work to these advantages. It is unable to bear the deep carefully observed them for many years. It ripers destroy them as they sprout and grow after every ploughing necessary for forming proper ridges, and as early as the red clover, and is easily made into rain. which would suffice if they were extirpated it is liable both to wash and bake from heavy rains, fine hay, if cut in proper time. Its earliness is of This cannot be effected on poor land without killing so as to require much severe labour, again to level vast importance in our climate. Thence it happens,

wheat, yet a providential aptitude for the benefits when united, warrant the conclusion, that it is ea-twith the rapidity of lucerne, with a vigour but little

ble of rendering a great proportion of our high, ers, and fully lands as valuable as reclaimed meadow land.

It is next to be considered, what grasses are best adapted to the soil and climate of Virginia, merit of red clover as an improving highland grass, is too well established to require proof. Its defects are. that it produces heavy spring crops, like red clover, the corn required and received six or seven work- 5. But the greatest benefit from the cultivation as it commonly perfects its growth before a drought ings, is always more infested with annual grasses of artificial grasses, arises from their exclusive calloccurs. It is the hardiest grass I ever saw, and and weeds, than that sown upon only a single fur-row turning under good perennial grasses, because are so well adapted for high, dry, and hilly land, ter than any I have tried. It keeps possession of they smother all annuals, and any seeds of the lat- if the soil is improvable, that it may very often be the land in spite of severe grazing. It flourishes ter remaining, are buried by one deep ploughing, made more valuable and more productive than low |best on soils suitable for red clover, but it will live which the earth is able to bear below the reach of land meadows. The expense of clearing and drain on and improve lands whereon red clover will pe-It furnishes better grazing early in the perennial grass lay, as in a fallow for wheat, half ing the former; yet draining is considered every spring, late in the fall, in droughts and in winter, the labour required by poor lands may be saved; where as highly profitable and useful. The com- than any grass known to me. Ripening with the because but few of the annuals appear after one parative expense between that and making highland red clover, it is peculiarly fitted for being sown deep ploughing, and as the perennials hardly ap grass, is not materially affected by the probable with it, because it greatly facilitates its conversion pear at all in the summer, very little culture is re- comparative profit. A good spring crop of high into hay, and retains possession of the ground for quired; and the crop is not only increased by the land grass is more common in our climate, than of years after the clover has disappeared. Alone, cut artificial grasses turned in, but by being freed from low land. It is not exposed to inundation. A before the seed ripens, its hay is as nutritive and the frequent laceration of its roots, caused by fre- pound of high land grass, green or dry, generally pleasant to stocks of all kinds, as any I have ever quent ploughings necessary to keep under the quick contains as much nutriment as two of low land li used; and it will yield both seed and tolerably growing annuals infesting thin land. The wheat is more easily made into good hay. And high land good hay at one cutting, as it tipens soonest at also following corn planted on a perennial grass lay grasses possess the great exclusive value of enrich top. Mixed with favourite grasses of grazing aniis cleaner; for although the perennial grass seeds ing the high and dry lands on which they are sown, mals, it is partially rejected, but eaten as they fail. will often sprout in the spring, and although they These considerations disclose items of profit, re ought universally to be sown with or upon the sulting from the culture of artificial grasses, which, or grazed, if left to grow, it rises anew, almost

diminished. Fifteen years experience has not ena-Clover should be sown on the wheat in the spring, reach to one hundred and fifty. It is a bread-stuff bled me to decide as to its capacity for improving or meadow out with it in the fall, and these eight farm, and grass is used in strict subserviency to that the soil, because the small quantity of seed first hundred acres should remain ungrazed; of course, object, for the purpose of enhancing its profit. If obtained, by confining experiments to small patches, four hundred lie untouched for two and an half gypsum, marle, a neighbourhood to towns, or any long concealed its qualities; and the large lots first years, to allow time for a large produce of vege- other adventitious mode of enriching land, can be nure, and too valuable to be ploughed up. It soil. Let the remaining two kundred acres be process of improvement, and the gratifications of produces (after it has come to perfection, in appropriated chiefly to grass, and be divided into increasing profit, may be accelerated.

The large area upon which the proposed system,) ungrazed and uncut, a warmer and more and cultivated in pumpkins, potatoes, peas, cotton, tem is calculated, is no obstacle to its applications of cover than the clover, which has recently turnips, or any cleaning crop, to be followed by tion to any other. Its proportions may be apinduced me to mix and sow it with wheat on a large wheat and grass seed, if these crops are gotten off plied to a farm of any size. This scale was anticipation I have yet discerned no cause for ap-lif they are not. Thus two lots, or forty acres of informed order of farmers to the calls of patrio-

vious observations, comprises their value, a plan tural perfection or elegance, will divide these ten about fifty years ago to assail, by precept and for the management of a bread stuff farm, combin-lots by ditches and live hedges of holly or cedar, example, the then execrable system of agriculed with high land meadows and artificial grasses, is (the former a conjectural, the latter a tried plant,) the remaining subject suggested for consideration. or at least by the usual fences. Even ditches alone Let us suppose a farm to consist of one thousand would be of some use. But in the infancy of imacres of arable land; that the greatest produce of provement, attendants of old men, women, or chilbreed grain, not in one year only, but in a course dren, are a tolerable resource, producing also the of years, is the chief object; and that the labour good effect of habituating the last in early life to on it is adequate to its cultivation in the three-shift employment, and advancing their health, with the mode, that is, to having two thirds of it annually precaution of folding the cattle in bad weather, in corn and wheat. To discover whether the profit to be expected from this style of cultivation, ferror to inclosures, particularly to the living or will be equal to that arising from the system pre-imperishable. Under this system, product, instead of seil and climate are greater. They effected sently to be proposed, we must first glance at its of labour, will soon be computed in reference to defects. It impoverishes the soil. Grass seeds space; and had agriculture, being detected by the cannot be beneficially sown with or upon the wheat miserable crops this mode of computation will discrop, because the land is too poor to nourish them, close, will shrink gradually out of sight, through and their destruction by the plough returns too ra-shame. The means of raising manure, and the pilv. Pasturage is scarce, bad and impoverishing most beneficial employment for teams and manual to the land; and the farmer is thereby disabled labour, will soon present themselves in those sea from raising within the farm, teams, meat, milk, sons of the year now lost or trifled away. I speak and butter, for his own consumption and confort, not from theory when I say, that the farm well and moreover exposed to annual expenses to supply managed, according to this system, will, in twenty the deficiencies. The labour being computed by years at least, return back to its original fertility. space, and not by produce, and a great demand I add, as an inference from this fact, that supposfor it being concentrated in one portion of the year, ing contiguous farms of one thousand acres each, losses accrue from its insufficiency to meet tempo- one in the usual state of impoverishment and the deny that his profit will be less, because his dirary pressures, and at other seasons for want of other in woods, the former to be thus managed, beneficial employment the acre is, upon an average, surprisingly small, same amount of lubour; that the proprietor of the of the first four years will probably produce a whilst as much labour is necessary for its cultiva-first would make far more profit, and find his land tion, as, differently managed, would in a few years at the end of the term of far more value, than the increase it per acre four-fold. Let us contrast this proprietor of the latter. If these rival farms were abridgment of the three-shift system, with an in an equal state of impoverishment, at the abridgment of that proposed to be substituted commencement of the experiment, I have no for it.

acres each, one to be annually cultivated in corn clusive improvement. and sown in wheat, so that two will yield a crop died and thirty acres, (exclusively of the twenty acres were hardly manured eighteen years ugo, and clive longer, it ought to admit of none. Then presently mentioned,) by ordinary management | uow the resources of the farm alone sometimes principles so narrow, will dictate to him an

The crop computed by and the latter in the customary mode, with the doubt but the first would produce three times as Let eight hundred of the supposed thousand much bread stuff in twenty years as its rival, indeacres be divided into four shifts of two hundred pendent of its inferior productions, and of its ex-

sown have remained too flourishing to require ma-table matter, devoted to the improvement of the added to the supply of manure on such a farm, the

scale, for the end of improving the soil, in which in time to sow wheat, or by oats and grass seed, adopted for the purpose of awakening the best prehension. For this purpose, it possesses on this portion of the farm, will produce each year tism and self-interest. Intelligence effects great recommendation beyond clover. It does not grow heavy and valuable crops, whilst a rotation will be objects by reflection; ignorance from imitation; and spread so rapidly in the fall or spring, as to in-established, sufficient to keep the grass lands clean and though a prosperous state of agriculture dejure the crop of wheat with which it is sown, as is and in good heart. Three of the other eight lots pends much upon small farmers, because they sometimes the case with clover. Upon the whole, ought annually to be cut for hay, and five to be re-possess by far the greatest portion of the nationwhatever doubt remains as to its fertilizing power, served for grazing, out of which last number should it lands, perhaps also of the national industry, the conclusions that it eminently possesses the quable annually taken the lot to be manured, so that none its introduction depends upon the successful exlities for lasting, grazing, and making high land will sustain above five years grazing before it is number of the large ones, who have time, capital hay, may, I think, be confided in. But it does recruited. The five lots devoted to that service and talents adequate to the cultivation of a not, so far as my trials have extended, succeed in ought to be grazed in succession, both to alleviate science abounding in difficulties, and requiring lands originally wet, however well they are drained. the impoverishment it produces, and to increase the no small degree of reflection. The merchants As the end designed to be produced by the pre-produce of grass. Hence he who aims at agricul- of Scotland, who had retired from trade, began ture habitually practised in that country, and have supplanted by another, which has diffused rich surface over a great space, previously ocupied by a cadaverous degree of sterility. As se neither love our country less, nor confess an inferiority of intellect, an equal share of elfort and perseverance by gentlemen farmers, will certainly be crowned with as much success is the efforts and perseverance of these gentlemen merchants, since our auxiliary advantages their patriotick design, chiefly by the introduction of the artificial grass culture; and when we musider the favourableness of our climate for reat spring crops of grass, frequently demonstrated by as heavy crops of clover as we hear or read of, and also its favourableness for concertang them into hay, no reason exists for despairing of obtaining the wonderful state of fertility which a country, less favoured by nature, has acquired by the same means.

I admit that a farmer may make a less crop than usual, the first or second year after he adopts the recommended system, unless he beminution of crop will be more than compensated crop numerically equal, at least, to his usual crop-; but then his profit will be greater, because having raised it from tess space, he will have saved much labour for improvement, and his land will be in better heart. Afterwards ms crops will agmercially increase gradually to an extent I cannot foresce. Should a man calculate by his hopes of life and chance for self gratification, without any regard for contempo-A great annual increase of manure is the sound-frames or posterity, he ought to adhere to the every year. As much as possible of each shift est test by which a farmer can discover whether he prevalent system of agriculture, if he expects to should be manured the year it is planted in corn. is successfully practising the proposed system or live two years only; if but tour, has determine-This may be extended in a few years to one hunder. On the area from which it was taken, five from may admit of some doubt; but if he expects

anandons ent of the present land killing habits. A calculation which looks forward but two years, cannot possibly procure success for any agricultural system, except one for exhausting the land as soon as possible. All men, who calcurate on so short an interest in the product of the circumjacent counties, duly appreciating course prohably near perfection. land, will strive to increase it to the utmost ex- the importance both in a national and individual tent, at the expense of the land itself. A pro-point of view, of an improved system of hus- and the arts, connected with or subsidiary to it, prietor, sure of dying in one or two years, would bandry: sensible of their own deficiency of not heretofore enumerated, as the society may improve but with little spirit, though his land knowledge in the theory and practice of rural hereafter propose for its consideration. was to descend to his children, but a possessor economy; persuaded that agricultural associafor one or two years, likely to lose the land and tions have proved eminently beneficial to other live, must feel a great lassitude in improving for states and countries; and desirous to procure future profit, which he cannot keep, for future for themselves and their neighbors the advan-enjoyment. No good system of agriculture can tages of such institutions; have determined to possibly take place, under the suggestions of associate together, and to constitute an Agrithese impulses.

from feeble and unskilful trials. Complete suc- vernment, the rules and regulations hereinafter cess will too often be expected from partial at-specified. tempts. The imagination can magnify the disruoted toe of a statue, into an entire image, and brood over a fragment with self-complacency: and fanaticism can expect wonders from relicktransmitted from ignorance; but it is to be primary staples, wheat, tobacco and hemp for finished. hoped that such cases will be rare in this age of market. intelligence and free inquiry; that the projudices imbibed from old habits will be exploded, the farm, the food, the clothing and the comfort and that the industry and good sense of the Vir- of the household, as Indian corn, rye, oats, bar-lished in at least one newspaper in the City of ginians will rapidly improve all suggestions, the ley, buckwheat, millet, the families of peas and Richmond, and one in the Town of Staunton. tendency of which is to preserve their country from decay, and themselves from indigence.

of this essay, to face an opinion, not less errogined, that a rotation requiring the interposi- lowls, insects and reptiles. tion of artificial grasses between exhausting tion of artificial grasses octaves, and de-crops, is slow in its return of profit, and de-the varieties of soil, climate or markets of our time the necessities arising from this delay. But different counties. from long and attentive observation, I have coned to the enrichment of the soil; and the ex-raily prevalent. pense of converting a portion of them into hay. though not as trivial, is yet inconsiderable sures, roads, fuel and timber. The returns of profit are infinitely more copious VII. Manures, plast r, green dressings, fal malk butter, cheese, meat, wool and leather. given number of laborers and drangit animals Vice-President pro-tempore, to be elected for Maoure, an increase of grain and other crops, are to be employed every day in the year, so as the occasion as hereinafter directed.

Vill. The Freasurer shall keep his accounts ing additional labour. On the contrary, so far labor to the size of the farm. dity of compound interest.

[Communicated for re-publication in the American Farmer.]

### RULES AND REGULATIONS

Of the Agricultural Society of Albemarle.

The undersigned, farmers of Albemarle and cultural Society, having for its attention and I admit also that disappointments will happen inquiry the following objects, and for its go-

QUIRY OF THE SOCIETY.

beans, the whole family of grasses, turnips, potatoes, Jerusalem artichokes, and other useful least nine members, including the presiding

neous than common; and not less hostile to for the saddle or draught, for food or clothing, nine members should not attend, on the day profit than to improvement. It is too often ima. and the destruction of noxious quadrupeds, fixed for any meeting, it shall be in the power

which should govern or vary them, according to

capital, than these grasses, or is equally rapid kindred instruments for dividing the soil, holds the extraordinary capital this system needs, ments would be an excitement to correct the mainder of the year, when the artificial grasses are grazed, or devot-slovenly and unproductive practices too gene- VII. The Preside

VI. Farm buildings and conveniences, enclo-

without causing additional expense, or requirithis being essential to the proportioning of the them for inspection.

fit apon profit, in a ratio outstripping the fecun- des for their adoption. It is believed that a orders of the society. adicious execution of this article alone might | 1X. The Secretary shall have in charge all nearly supersede every other duty of the socie- the books and papers of the society, other than

ty, inasmuch as it would present every good practice which has occurred to the mind of any cultivator of the state for imitation, and every had one for avoidance; and the choicest processes culled from every farm would compose a

X. And finally, such subjects in husbandry

#### 2d. Rules and Regulations.

1. The society shall be styled "THE AGRI-CULTURAL SOCIETY OF ALBEMARLE."

II. The officers of the society shall be a President, a first and second Vice-President, a Treasurer, a Secretary, and an Assistant Secretary when the increase of business shall require it.

III. The society shall meet regularly at the town of Charlottesville in the County of Albemaile, on the first day of each regular term of 1st. UBJECTS FOR THE ATTENTION AND IN-the Superior Court for the said County, and shall continue by adjournment from day to day, I. And principally, the cultivation of our until the business to be transacted shall be

IV. The President, or in his absence, the II. All subsidiary articles for the support of first Vice-President shall have power to call special meetings of the society, by notice pub-

V. A quorum for business shall consist of at An observation is reserved for the conclusion roots, cotton and flax, the garden and orchard, officer; but if from the inclemency of the wea-111. The care and services of useful animals, ther, or the rise of water-courses, as many as of any three members to adjourn the society IV. Rotation of crops, and the circumstances from day to day, for any number of days not exceeding three.

VI The officers of the society shall be elected on the first day of each regular meeting in V. Implements of husbandry, and operations the autumn. Each officer, so elected, shall lidently concluded, that no crop requires less with them, among which the plough, and all its continue in office for one year, and until another -hall be chosen in his stead. And in case of in its returns of profit. The labour which cul- the first place, and the threshing machine an any vacancy, by death, resignation or othertivates other crops, prepares the ground to re-important one, the simplification of which is a wise, the same may be supplied by a new elecceive grass seeds, and they are mingled and great desideratum. Successful examples too of toon, to be made at any meeting of the society; sown with grain. Seed is therefore nearly all improvement in the operations of these instru- the person thus newly elected to serve the re-

VII. The President shall preside at the meetings of the society, and perform all the usual duties of that station. In his absence, the same duties shall devolve on the first Vice-President. If he also should be absent, then on and lasting, as well as more rapid, than those lows, and other means of ameliorating the soil. the second Vice-President, and if neither of made by any other crop. They suddenly yield Vt11. Calendars of work, showing how a these officers should be present, then on the

every rotation, when ploughed in ungraze, time, according to the usual course of the sca-methodically stated in a book to be provided for they present to the farmer an improved soil, sons, all the operations of a farm of given size, that purpose; and when required, produce At every stated meeting in the autumn, and also whenever his office as artificial grasses are thus used, they save him more labour in the single article of fencing, than they consume. And finally, the profit of the members of the society, including the bad expenditures. In the latter case, he shall the members of the society in the society and finally, the profit of the members of the society including the bad expenditures. the system becomes so incorporated with the as well as the good, that those who follow the impreover deliver such accounts, together with soil, whilst it is also enjoyed by the reaper, as former may read and see their own condemna- all books and other property of the society in both to last long, and anomaly to generate pra- non in the same page which oners better exam- his hands, to his successor in office, or to the

those in the hands of the Treasurer, and keept the committee.

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X. At the regular meeting of the society in of the society. the autumn, shall be chosen a committee of correspondence to consist of five members, any or secretary, be absent from any meeting, the three of whom to be a quorum, for the purpose society shall elect one to serve pro hac vice. of corresponding with any other society, or persons, touching the objects which this society society shall propose prizes for experiments has in view. At the same time shall be chosen and improvements in husbandry, and for the a committee of accounts, consisting of three best pieces written on proposed subjects. And members to receive and adjust all claims in order more effectually to disseminate the against the society for its contingent expenses knowledge of useful discoveries and improveand the President or first Vice-President shall ments in husbandry, the society will from time give orders on the Treasurer for the payment of to time, publish collections of memoirs and obthem.

tinguished into Ordinar and Honorary,

The persons present in person or by proxy, at the meeting which appointed the committee to draw up these rules and regulations, or at members.

its mectings.

Strangers who desire to be present as auditors may be introduced; and for that purpose each member shall be authorized to bring one friend along with him to any meeting.

XII. New members either ordinary or honothe case of an ordinary member, that he is desirous of joining the society.

unless at the time of nomination, a statement him for the purpose, such member stall be con of the person proposed, shall have been han led shall be entered on the minutes. to the Secretary, read to the society, and entered on the minutes.

unless two-tairds of the members present vote for his admission.

XIII. Whenever a new member is elected, it

day of 18 was elected a Member (or Himorary Member) of the Agricultural Society of Albemarle, the Society inviting his assistance

C. D. Secretary.

XIV. No person elected as an ordinary annex the name of the person offering it. member, shall be entitled to the privileges of XXIII. No new rule, nor alteration in any these rules and regulations, and paid his by two-thirds of the members present at tw arrears, if any are due, to the society.

XV. New members may be nominated at any at one of the stated meetings of the society.

The elections of officers, members and comthe same in exact order. He shall register all mittees, shall be by ballot : and the majority of letters which shall be written by the committee members present, including the presiding offi-of correspondence, or by himself, by order of cer. shall decide all questions, except those touching the elections of members and the rules

XVI. If the presiding officers, the treasurer, mer months.

XVII. As soon as the funds will admit, the servations, selected from such communications XI. The members of the society shall be dis. as shall be made to them. To promote these assist the society with experiments and incidents in husbandry.

XVIII. All claims of prizes shall be sent in the meeting by which they were adopted, and writing-and when read, the society shall de-stand where growing, opening a trench on each side the meeting by which they were adopted, and writing—and when read, the society shall be selected termine which of the claims, relative to each of every standing row, within six inches thereof, for the purpose by the society, shall be ordinary prize, shall be selected for their definitive jude; the reception of the plants of the other two rows, which for the purpose by the society, shall be ordinary prize, shall be selected for their definitive jude; the reception of the plants of the other two rows, which is the purpose by the society, with as little injury as embers.

In the first state, any case, that there be no competition for a those new trenches, in the order they formerly stood. and of other states and countries, whom the so- prize, but only a single claim, the society will When the three rows are thus planted, earth them up and of other states and countries, whom the so-ciety may elect for the purpose, shall be hono-consider such claim, and if the claim or claims the frost comes on severe, in a dry day, cover this wholly rary members—and they are hereby invited to aid the society, and, if convenient, to assist at expectations of the society, the prize proposed earth. If the rows run east and west, the south side shall be decreed.

XIX. Every ordinary member shall on the wanted. Or, day of his admission, and also on the first day then plant it in sand, in a dry cellar, in the same manof every succeeding regular autumnal meeting, ner, as directed for planting it in the frames. pay to the treasurer the sum of five dollars.

At the close of every regular autumnal meeting, the treasurer shall lay before the society, a meeting he shall have been proposed by two and if the contribution of any member shall be large thus protected, may be taken up in winter when members to the society, with an assurance in found more than one year in arrears, after the Nor in any instance shall a vote be taken, him by the treasurer, or collector authorized by if the same has been personally demanded of otherwise they will be very liable to rot. taining the name, place of abode, and addition be no I withdrawing from the society, and he no longer deemed a member-and the same

Any member of the society may withdraw from the same, by sending a letter of resignation

priated by a majority of the members present. shall be the duty of the Secretary forthwith to at regular occurrings, to the objects of the instinotify him of his election in the following form : tution, in such annuer as shall be deemed most A. B of beneficial, and to no other purpose whatever.

XXI. Donations may be received by the t-casurer, to be added to the funds of the society.

XXII. In order to prevent imposition, the

successive stated meetings of the society.

by the General Assembly of this State.

KITCUEN GARDEN, FOR NOVEMBER. (From the American Practical Gardner, published by Fielding Lucas, Jr ) General Remarks.

As much may be done at this time, towards the laying out and preparing of new kitchen gardens, for the ensuing season, recur to directions given in for-

In the beginning of this month, dung and trench the ground, that is intended for early crops, and lay it up in high, narrow, sloping ridges, particularly, if it be any way stiff, or of a heavy nature, to receive the benefit of the winter frost, &c. which will meliorate and enrich it : besides, by having as much of this work performed now, as can be conveniently done, it will greatly forward and assist in spring, when you are hurried with the pressure of bu-iness.

Should the frost set in towards the latter end of the month, so as to bind up the ground, and prevent your trenching, eart or wheel manure into the different quarters, wherever it may be wanted.

Celery, Endive, and Cardoons.

Continue, during the early part of this month, to views, the friends of agriculture are invited to blanch your celery, endive, and cardoons, as directed in the preceding months, but when severe frosts come on, they must be preserved therefrom, in the following

> Every third row of the celery may be suffered to may easily be opened, to take out the plants when

The beds of celery, which were planted, as before directed, should in the early part of this month, be earthed up to within six inches of the tops of the plants, rary may be elected. But no person shall be list of the members, specifying those who have, then lay a covering of dry sand over each row, rounding voted for as a member, unless at a previous and those who have not paid their contributions: it off, and after this, a coating of dry straw. The eewanted, unless the weather should prove too severe.

same shall have become due and pavable, and ther, and when the plants are perfectly free from wet, The above work should be performed in dry wea-

Cabbage, and Cauliflower Plants.

During the continuance of mild weather, give your cabbage and cauliflower plants every advantage of receiving free air, to inure them, by degrees, to bear the cold, by taking the glasses off entirely, in the warm part of the day; but always be careful to place them over the frames again, at night, and also in wet, and cold weather. Notwithstanding, when the days Nor shall any person be elected a member, to the secretary, and by paying up any arrear glasses may be raise I, in the day time a hittle hebind, which, at the time, he may owe the institution. for the admission of air, but whenever severe frosts XX. The funds of the society shall be appro- set in, the beds must be carefully covered at night, and at other times, when necessary to protect the plants from being frozen.

Housed Onions.

Dried onions should be occasionally examined, and such as are beginning to rot, carefully taken away.

Preserving Cabbages and Borecale for winter and spring use.

Previous to the setting in of the hard frost in winter, secretary shall to each article of intelligence, take up your cabbages and savoys, observing tid it in a dry day; turn their tops downwards, and let them remain so for a few hours, to drain off any water that may be lodged between the leaves; then plant them the society, unless he shall hav subscribed old rule shall take place, unless it be sauctioned down to the heads in a rulge of dry earth, in a warm , sheltered place, close to one another, previously aking off their loose hanging leaves. Erect over them XXIV. The society shall be kent in order by a low, temporary snew or seep meaning to admit the a low, temporary shed to keep them free from vet, meeting; but all elections of members all be the coles thich are observed for that purpose an freely, in mild dry weather, these ends are to be closed with straw, when the weather is very severe.

Preserving Potators and Turneps.

the turneps cut, and both of them as much as possible cleared of earth, they may be preserved through the winter in warm dry cellars, which will afford an opportunity of picking and sorting them. Or they may be covered in the earth, by choosing a dry sheltered spot of ground, and laying straw at the bottom, and equally anxious for wealth, and they set on foot a sides, as well as covering the top therewith, and over the whole a sufficient covering of earth, to protect the roots effectually from frosts. An opening may be town. The object was accomplished, and the son made on the south side of this heap, and completely of my old friend was made a director. This point covered with bundles of straw, so as to have access to the roots at all times, when wanted, either for sale

Preserving Carrots, Parrneps, Beets, Salsafu, &c.

The best method of preserving these plants, through the winter, after they are taken up, and the tops cut off, is to expose them for a few hours to the air, and not get his own for it, and the sheriff has lately then pack them separately, in dry sand, in a warm taken the liberty of selling it for him, and also the cellar, free from moisture, from whence they may be taken, whenever wanted.

#### (0) FOR THE AMERICAN FARMER.

### DOMESTIC INDUSTRY.....No. 111.

MR. SKINNER,-It is about forty years since an old schoolmate of mine, then in the vigour of youth, with a young wife and little money, pushed his way into the back woods, and began the world by cutting down trees and putting up a log-house. Having laid it down as a rule to himself, never to On the agricultural habits of the people in the contract debts for any thing except the absolute necessaries of life; he purchased a breed mare, one cow, two sucking pigs, a couple of sheep, and as many fowls, and as these tend taken all the mo- it contains so many good hints, and hits off, with so ney be could spare, he waited patiently until they much truth, certain bad habits and prepadices, that we multiplied, so as to stock his farm. He laboured slaves of early impressions, who live on without darlate and early to clear and cultivate his ground, so ing to inquire whether some all erations may not be that after the first two years, he had plenty and to made for the better. There is nothing in the letter spare. The returns of whatever he had to dispose to which the writer need hesitate to attach his name; of, were prudently laid out is improving his farm, that we hope he will excuse us for the liberty we have or paying off the purchase money, as it became due. that we nope he will excuse its for the interity we have the afterwards built a good harn and stable, before frequently with his reflections, on the agricultural practice. stately stone dwelling.

Meantime his wife was equally attentive to the duties of her sphere and station. Her poultry, her co may be introduced into a rotation of crops with pigs, her sheep, and her culves, experienced her great advantage, and, Agricula says, that much daily attention, and repaid her with interest. Her would be gained by the introduction of such a husband never sold a pound of wool, bought nei-mode of collure. This would prepare the minds them. It never entered her head to barter twenty and the farmer are incompatible. If tobacco is pounds of wool for a yard of broad-cloth-a barrel raised in sufficient quantity to be an object, it will the enervating juice of Asiatic weeds, she served I flatter myself that I have been, in some small her guests and her family with the wholesome and legree, instrumental in effecting this change among nourishing stores of the spring-house

conduct their domestic concerns for many years; and corn by rye, oats and other small grain, which nary disappointments and calamitics of life, yet observe, admits of four fields and perhaps some lots,

for domestic comfort and independence. The son, | totality of this pernicious weed, to rob all other Where there are plenty of good warm cellars, when however, had imbibed very different maxims from crops of the requisite labour, and to demand for He therefore united with some others, who were project for establishing a bank, in a neighbouring thousand dollars, and paid half of it, by means of the new bank, in full confidence that in less than two years he would sell it for double that sum. But it farm his father left him, to pay the balance due to the bank; and his mode of becoming expeditiously nor home; a thousand times worse off, than his father, the day he cut down the first tree.

COGITATIVUS.

### Occasional Extracts.

lower counties of Maryland.

The following is a familiar letter from a friend in a neighbouring county, not designed for publication, but

MR. SKINNER,-You seem to think that tobacther coat nor blanket, nor experienced the want of of many for its total abandonment. The planter of home made linen for a silk gown. The sparkling or the other must be neglected. However, Mr. sider, and unadulterated essence of rye, were always ready on proper occasions; and instead of ment, and several others of my acquaintances, and some of thera. Mr. -- 's plan is clover succeed-In this manner did our prudent couple live, and ed by tobacco, tobacco by wheat, wheat by corn, and though they were not exempted from the ordi-will admit of the sowing clover. This plan, you will they enjoyed its comforts to a degree little known and, after all, clover is its foundation or base. or felt, by many in more splendid circles of society. Now, my dear sir, is it not disgraceful to the It is now about six years since the companion of lower counties to be indebted annually to Pennsyltilute of all those little domestic conforts and convemy youth went down to his grave, and his faithful vania for their clover seed? and yet this is the fact. partner soon followed him. She left his only son, Have not these people sufficient industry and sense and drudgery of domestic life, as a Chucktaw Indian-the daughters being long before provided for an to get out their own clover seed? Yes. But at the (his daughters being long before provided for) an to get out their own clover seed? Yes. But at the excellent farm of five hundred acres, in a high instant of time when clover seed should be got out.

these esculents are taken out of the ground, the tops of those of his father. He level money, but did not itself ten times as much as any other crop, thus like to work for it. He despised what he called impoverishing its cultivator by many mouths. I the trifling and slow returns of daily industry, and know, sir, that my reasoning will be deemed madthought it much better to become rich at once bees, that those who have dug and delied in the earth for half a century, surrounded by tobacco vorms and covered with their slime, will never comprehend me. I want the farmer to be more than a mere raiser of grain, I wish him to unite what he now considers horticultural productions, with his gained, he purchased land to the amount of ninety wheat, and other grain, and grasses. From whence is Baltimore supplied with potatoes, turnips and mions? From a distant part of the Union, by an industrious and frugal people. Yet all these may turned out otherwise. Before two years he could be cultivastd with the plough, an assertion which would startle a tobacco planter, and make him fansy the world was turned upside down. A gentleman in Anne Arandel county assured me some time since, that an acre of ground planted in cabbages, rich has left him so poor, that he has neither house had produced him five hundred dollars. Let the planter look to this. An acre of ground contains 5000 cabbages, so it will of tobacco, and they will sell (if ht for making sour crout, &c. now get-(ing more and more into use for sea voyages) for \$10 a hundred. But the propagator of linra worms will exclaim, if we were all to make cabbages they would sell fr nothing. Be it so. But is there nothing else within his reach but cabbages? Among the multitude of esculent plants, which Almighty God has bestowed on undeserving man, he may find a variety to cultivate, and the Maryhand lowlander may find many he never saw, for his tobacco has made a forcible entry and detainer on his premises, and completely ousted from possession the nobler plants which become food for man and heast. The philosophic sage of Monticello has reasoned conclusively on the subject. 1 liave not his Notes on Virginia by me, nor time to hunt it up, but read him on tobacco and be convinced. I will give you two instances which oche thought of exchanging the little log house for a tises of the lower counties, which stand in need of so the lower counties, which stand in need of so the starting quality, as Arator calls it. A short time since I was in company with two ladies, famous for sending each dainty variety to market. Strawberries had been scarce, though wild overs were as abundant as usual. I asked them why they had sent none to market, they who formerly sent such quantities both from the garden and the field, and was informed that the high price of tobicco had induced their husbands to pitch a large crop, of flour for ten pounds of coffee -nor thirty yards interfere with every other species of crop, and one and not a boy could be spored to weed the garden, to gather them in the field, or bring them to market. I was afterwards informed that in the absence

<sup>\*</sup> They were sold in this market this morning for 5; it is mentioned to give a sure basis for ealculation.—Leiter American Parmer.

<sup>†</sup> Nothing was ever more true-who has not seen the former and planter with several hundred acres of land, and a dozen or more of slaves, whose table was destitute of a pound of good butter-a single nice potatoeparship or tomato-who could not treat a friend to a single good apple, peach, pear, or bottle of sparkling cuter-without a decent saddle-horse, or even a saddle for himself, his vite, or his daughters-in short as desterprising dreass, who shot their eyes against all the ights and im, rovements of the age, in which they five, state of improvement, with every thing necessary tobacco should be housed, for it is the peculiar who vegetate and die, but never from ish '-Edit. A. Far.

or one of the ladies, her son had ploughed up the lattlity or mufility should be tested by the memoccasioned me to call at the house of a planter, paper. He had a fine little boy, an only son, of twelve In either case, the propriety of making a intellect. In Baltimore there are several extensive general use. breweries, and I believe not a regular hop garden which they have never practised.

P. S. From the sowing of the tobacco heds to the day of inspection is about 10 months. I may one day give you my ideas on the cultivation of it. The present mode is contrary to reason and nature, and requires more labour than is necessary by double. I shall also furnish you with some other whim whams of mine.

FOR THE AMERICAN PARMER.

On the organization and utility of Agricultural Societies, and the importance of the know-ledge of Chemistry, as connected with Agriculture: - By Ell S. Davis. Esq.

Abbeville. S. C. Oct. 13, 1819.

MR SKINNER,

Sir,-It is but recently that I had an opportunity of seeing a few numbers of the American Farmer, with which I am much pleased.

Such a paper, devoted as it appears to be, to the diffusion of that kind of knowledge which is peculiarly useful to the agriculturist, cannot

be too universally patronized.

Agriculture, commerce, and manufactures, are generally viewed as having a coordinate influence on the wealth, strength, and prosperity of a nation. I am willing to admit a coor erative influence, but agriculture is precisely to the other two, what the blood is to the animal system. Without agriculture, the other two could no more exist. than man could live without blood. It is, in fruth, the pabulum v to of all the great and essential relations of government. I reed not go into a logical descussion to prove this fact; it is too plain to require illustration. But few of the many valu- parec, I wish to recommend a small able improvements in agriculture are known here, and such as are known, are but partially which I have several times seen in operation in this

conditation in the farmer, they would tend very to are branded " 11. I case, Enneid, Connecticut." much to the introduction of care and valuable Tablet, Oct. 25, 1819.

Agaron.

The Latter will be thankful to any of his connection. a new invention, or improvement is offered, its the origin and price of this plough.

strawberry heds in the garden, to prevent any in-hers of some agricultural society; and whether terference with the crop. As to the other instance approved of or not, the result should be reportit is of a melancholy nature. I had business which ed through the medium of some agricultural

years old, but this boy did not go to school, and report is obvious. If the invention, or imthe planter father gave me as a reason, that he had provement, should be deemed useless, the retaken him away, because the school was too far to ort would have the effect to supersede imposiwelk, and he could not spare a horse from the crop.
This was not a poor man, but moderately wealthy.

Little did Arator think that while this weed starved.

The contrary of the contrary of the considered one which promised much pages filled with light ephemeral speculations and altitude did Arator think that while this weed starved. its cultivator and the soil, that it starved the human v enhance its value, and bring it at once into of news-mongers and politicians.—The science of agri-

in the state, and but little barley raised. You say should be attached, whose knowledge of chemisin the state, and but little barley raised. You say should be attached, whose knowledge of chemis-many gentlemen are beginning to write under their proper names; mine could give no reputation to an agricultural work or essay, but would subjest physical science. Should this be found imme to the ridicule of those, who find fault where practicable, the chemical works of Davy, Acthey cannot comprehend, and denounce all schemes cum, Bachet, and La Grange ought to be pur-idleness, if not thrown away in vicious pursuits. Or chased for the use of its members.

By this means the great laboratory of nature and agriculture.

It would enable men to reason on the prothe causes of many important phenomena. is contended that "agriculture can only be which explains the phenomena of vegetation, germination, the growth, the ripening, and the death of plants.'

The greatest good rendered by Bonaparte to chemical information throughout France; by which a new aspect and lustre was imparted to the agricultural department.

f am convinced that, the absence of this dea which I find to be prevalent in the northern states, that South Carolina is a cotton state only, and that its chinate and soil are inhospitable to the production of small grain.

Your's respectfully, ELI S. DAVIS. -

FOR THE AMERICAN LARMLE.

Mr. Editor.-Through the medium of your useful

NEW-LNGLAND PLOUGH.

here, and such as are known, are but partially county. It is of easy drought, turns the ground went county. It is of easy drought, turns the ground went pend no asmeably upon the native strength of from five to six dollars. It is decreedly the best kind our soil, without calling in those ine-timable of plough I have ever seen, either for seeding wheat, aids with which the ingenuity of man has he leutinging corn, or breaking land; and ought to be should be adopted in every county and district had at Nortonk. A consignment of them to Baltimore in the union. Besides exciting a landable next spring, would be of public benefit-those I allude

# THE FARMER.

BALTIMORE, FRIDAY, NOVEMBER 12, 1819.

We hope our subscribers will not fail to read attenlively, the communication on the cultivation of artificial grasses, from the pen of one of the most expcrienced and colebrated agriculturists and statesmen in

essays, enoked up to satisty the ever graving appetites culture is difficult—the very nature of its operations To each of these societies, a gentleman to be expected therefore, that essays treating of the cult matter to get through and reflect on all it contains in his leisure moments during that period-moments which would otherwise but too often be spent in total let him hand the paper to be read out, as the phrase is, by his sons and daughters. And what is more pleasing to an uncorrupted mind, than to contemplate the picwould be gradually opened to the view of many, to an uncorrupted mind, than to contemplate the who, perhaps, know but little of the very infi-honest lusbandman, sitting with his helpmate after the mate connexion that subsists between chemistry toils of the day round the cheerful fire, in the midst of a groupe of happy, healthful children, each of whom reads alternately that which improves them, and enperties, and affinities of things, and with the to pursue an honest ealling, which affords him the ables the father with increased intelligence and effect assistance of a chemical apparatus, develope means of giving them food and raiment, intellect and noral character ?

Upon those who are, in good earnest, turning their rationally improved by calling in the assistance attention to the improvement of their expansion that the first step to be taken in every plan of improvement, must have in view the accumulation of grass-without that both for winter and summer food, we cannot maintain live stock-without stock we cannot raise manure. Having recorded Col. Taylor's essay on this subject as a preliminary step, we shall go on in future numbers to speak of particular the French nation, was derived from his patron-kinds of grass, and amongst others, of one which has age and sedulous exertions in disseminating been very little treated of in American publications on agriculture; but which we are persuaded will do well in situations where no other grass can be produced—we mean the Fiorix. The zealous and learned President of the Agricultural Society of Prince George's county, has had the kindness to loan the Editor "THE knowledge is one great cause of the retardation Rules and Proceedings of the Anniversary of the of agricultural improvements in this country - Workington Agricultural Society." Amongst much of agricultural improvements in this country—other interesting matter, we find a letter from Doctor Richardson on Figure Grass, which we shall copy abundance of corn, oats, potatoes, peas, rye into the American Farmer, thereby making it in some and wheat. The latter yielding from 15 to 50 degree, more worthy of the distinguished and very bushels per acre. This must at once refute the flattering support it has received from eminent entreens in every state in the union.

> We are glad to see that a Map of the State of Maryland, so long wanting, is now offered by Mr. Lucas, who is so well qualified to give us a good one.

> We have drawn too freely on the labours of the Editor of the Practical American Gardener, but it contains a great deal of valuable matter besides-It ought to be among the standard family books in every house in the country .- Price 51 25.

Present Prices of Country Produce in this Market.

Actual sales of Red Wheat-On the 8th inst. from ds with which the ingenuity of man has hir-tearn rought into general use. It is said that they can be of good quality.—Cold, 60 to 63 ets.—Ryr., 62; to 65 and the man your market. It is said that they can be of good quality.—Cold, 60 to 63 ets.—Ryr., 62; to 65 and the man your market. A consignment of them to Baltimore of the man to be discovered in the constant. A consignment of them to Baltimore of the man to be discovered in the constant. A consignment of them to Baltimore of the man to be discovered in the constant. A consignment of them to Baltimore of the man to be discovered in the constant. A consignment of them to Baltimore of the man to be discovered in the constant. A consignment of them to Baltimore of the man to a constant St. Marys, at \$1 17-19th, from Virginia, \$1 15 and tor \$5 50-TAR, scarce \$3-Terrenting, soft, dull salo atticles of husbandry and horizoulture. When out or Nortolk subscribers for any information as to Peas, 80 ets. to \$1-Shad, No. 1, trimed \$6--Susqueha-52-Do. Spiners, of, 45 cts. - Rosix, dull \$2-Beaus and nah Herrings, No. 1, 52 75 to 33-Do. No. 2, 52 85.

# PRICES CURRENT

#### AT BALTIMORE:

Carefully Revised and Corrected every Thursday

Cary and revised and correct		9 + 1111	
ARTICLES.	CER.	RETAIL	PRICES
BEEF, Northern mess	bbl.	17	
No 1		15	
No 2	10.	13 50 16	
Bacon, Butter,	lb.	31	37 1-2
Coffee, first quality,	1	33	i
second do		27	28
Cotton,		27	
Twist, No. 5,	,	<b>5</b> 5	
No. 6 a 10, - No. 11 a 20, -		<b>5</b> 6	60 90
No. 20 a 30,		90	1 30
Chocolate, No. 1,	1	<b>3</b> 3	
No. 2,		25	
No. 3,		25	0.1
, ,	pox	20 18	22 19
dipt, spermaceti,			scarce
Cheese, American,	lb.	9	10
Feathers,	1	60	65
	gtl	3 50	
	bbl.	2 75 9	retail 12
mackarel, No. 1 a 3 - shad, trimmed, -		7 75	7 87
Flour, superfine,		6 50	7
fine,	bbl.	5 50	
middlings,		4 50	5
rye,	0001	4 a	4 25
	bush	none. do	
	lb.	do	
Hides, dryed,		12	15
Hogs lard,	-	12	13
Leather, soal, -	1	25 62 1-2	30 75
Molasses, Havana, New Orleans, -	gal.	75	1.3
sugar house,		1	ĺ
	gal.	1 50	
	bb <b>l.</b>	ls a	20
prime 2d do		16 α 14 α	17
cargo 3d do Plaster,	ton	5	13
	bbl.	1 75	1
Rice,	lb.	6	_
Spirits, Brandy, French, 4th proof	gal.	2 1 25	3 1 50
peach, 4th proof apple, 1st proof		75	1 50
Gin, Holland, 1st proof		1 50	
do. 4th proof			
do. N. England		50	
Rum, Jamaica, American, Ist proof		1 50 75	
Whiskey, 1st proof		50	4
Soap, American, white,	lb.	18	20
do. brown, -		9	
Sugars, Havana, white,		19 15 50	
brown, loaf,		25	1
lump,	lь.	20	
Salt, St. Ubes,	bu .	70	
Liverpool, ground,		75	1
Shot, all sizes, TOBACCO, Virginia fat,	lb. cwt.	7 12	
do. middlings,	.,,,,,	6 50	
Rappahannoek,		5	5 50
Kentucky, -	],,	6 50	
small twist, manufactured,	Jb.	25	
pound do TEAS, Bohea,		63	
Souchong,	lb.	75	a 100
Hyson Skin	ł	75	
Young Hyson,		1 25	1
Imperial,		80	,
unwashed, -	}	40	
crossed, clean,		68	
unwashed, -		35	
eommon country, clean, unwashed		25	
skinner's,	1	33	
·			

POOR RICHARD'S ALMANAC.

an old Pennsulvania Almanac, intitled, Poor Richard years. The frequent mention he made of me must Improved.

(Concluded from page 256.)

these superfluties! We are offered by the terms of of the sense of all ages and nations. However, I rethis sale six months credit; and that perhaps has insolved to be the better for the echo of it; and, though duced some of us to attend it because we cannot spare I had at first determined to buy stuff for a new coat, I the ready money, and hope now to be fine without it went away, resolved to wear my old one a little longer. But ah! think what you do when you run in debt; Reader, if thou wilt do the same, thy poofit will be as you give to another power over your liberty. If you great as mine. cannot pay at the time, you will be ashamed to see your creditor, you will be in fear when you speak to him, when you will make poor pitiful sneaking excuses, and by degrees come to lose your veracity, and = ses, and by degrees come to use your terracty, and sink into base, downright lying; for, "the second ture and objects suited to a paper of this sort, such as, Richard says; and again to the same purpose, "ly-the sales of land, seed, live stock, implements of husmg rides upon debt's back; whereas a free-born En-bandry, new inventions, &c. &c., will be inserted once glishman ought not to be ashamed nor afraid to see or only, at the rate of \$1 per square, to be paid in adspeak to any man living. But poverty often deprives a vance. The very extensive circulation of this paper man of all spirit and virtue. "It is hard for an empty among landed men, throughout the United States, ong to stand upright. What would you think of that makes it an eligible medium for giving such public noprince, or of that government, who should issue an tices, and one publication is as good as forty, unless edict forbidding you to dress like a gentleman or gen- in cases where the law prescribes a greater number of tlewoman, on pain of imprisonment or servitude? times. Would you not say, that you were free, have a right to dress as you please, and that such an edict would be a breach of your privileges, and such a government tyrannical? And yet you are about to put yourself under that tyranny, when you run in deht for such dress! your creditor has authority, at his pleasure, to deprive you of your liberty, by confining you in goal for life, or by selling you for a servant, if you should not be able to pay him. When you have got your bar-gain you may, perhaps, think little of payment; but as poor Richard says, "creditors have better memo-ries than debtors; creditors are a superstitious sect, great observers of set days and times." The day comes round before you are aware, and the demand is made before you are prepared to satisfy it; or, if you bear your debt in mind, the term, which at first seemed so long, will as it lessons, appear extremely short; time will seem to have added wings to his heels as will seem to have added wings to his necessary will as his shoulders. "Those have a short lent, who owe money to be paid at Easter." At present, perhaps, you may think yourselves in thriving circum stances, and that you can bear a little extravagance on the same sheet a PLAN of the city of Baltimore .cwithout ing ry; but

"I or age and want save white you may, No morning sen lasts a whole day,"

Gain may be temporary and uncertain, but ever, while you live, expense is certain and constant; and, "it is easier to build two chimneys than to keep one in fuel." as poor lichard says: so, "rather go to bed supperless than rise in debt"

" Cet what you can, and what you get hold,
"Tis the stone that will turn all your lead into gold,"

And when you have got the philosopher's stone, suryou will no longer complain of bad times, or the difficulty of paying taxes

IV. This doctrine, my friends, is reason and wisdom: but, after all, do not depend too much upon your own industry, and frugality, and prudence, though excellent things; for they may all be blasted, without watered and in an excellent neighborhood. Two thirds the blessing of heaven; and therefore ask that blessing humbly, and be not uncharitable to those that at pre sent seem to want it, but comfort and help them Remember Job suffered and was afterwards pros-

'And now, to conclude, "experience keeps a dear school, but fools will learn in no other," as poor Richard says, and scarce in that; for, it is true "we may give advice, but we cannot give conduct:" how-ever, remember this, "they that will not be counwill not hear reason she will surely rap your knnckles,"

perous.

as poor Richard says. Thus the old gentleman ended his harangue. The people heard it, and approved the doctrine; and immediately practised the contrary just as if it had been a common sermon, for the auction opened and they began to buy extravagantly .- I found the good man had

thoroughly studied my almanacs, and digested all I had The way to wealth, us clearly shown in the Preface of dropt on those topics during the course of twenty-five have tired any one else; but my vanity was wonderfully delighted with it, though I was conscious, that not a tenth part of the wisdom was my own, which he as-But what madness must it be to run in debt for cribed to me, but rather the gleanings that I had made

I am, as ever, Thine to serve thee. RICHARD SAUNDERS.

# PLAN OF BALTIMORE.

AND MAP OF MARYLAND.



No. 138 MARKET-STREET,

TAS THIS DAY published on a single sheet, a MAP of the State of Maryland divided into counties, on which is laid down all the principal turnpike and other roads, with their distances throughout the state; and cording to the latest improvements—the whole forming one of the most complete citizens, strangers, and travellers' guide for the town and state ever published, and will be found highly useful to any one that wishes to obtain accurate information on the subject.

\$1 25 Price, plain colored 1.50

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#### Vol. I.

## BALTIMORE, FRIDAY, NOVEMBER 19, 1819.

Num. 31.

### AGRICULTURAL.

## Cultivation of Fiorin Grass.

By Dr. MICHARDSON, D. D. Clonfeckle, May, Ireland.

It is with great satisfaction I have the honour of submitting to the society a paper on the cultivation of

fioria, by Dr. Richardson :-

tlemen deputed by the Agricultural Society of the stewartry of Kirkrudbright and Wigton, to visit Dr. Richardson's form. The report of E. Boyd, Esq. of Merton-Hall, and J. M'Culloch, Esq. of Ardwell, con the honour of receiving from him, says, "I think the be made productive, how the useless heath may be quantity upon one meadow, was six times as much as I made to give place to the most huxuriant of grasses.

I shall commence with some general maxim necessary to be of the very best quality; and holds out the sarily to be observed in the laying down and cultivation. most flattering hopes of its answering for cutting green for winter soiling .- Dr. Richardson's indefatigable exertions in bringing the cultivation of fiorin to the perfection he has done, on all kinds of soil, even where peats have been cut, will form a new era in agriculture. What the turnip does for light soils, the fiorin will do for strong .- Manure is the basis of all systems of farm- discharged. ing :- An acre of fiorin may be estimated from 5 to 10 tons, and capable of making from ten to twenty tons of manure, supposing it only to double its own weight.

The obligations due Dr. Richardson from his county.

are GREAT. No encominm to my power to bestow, can do him JUSTICE. In offering to him my warm and grateful thanks, though they fail is conveying any adequate idea of what I conceive and feel to be his due for the benefit he has rendered to agriculture, will 1

When I was treated in so kind and flattering a manner at Workington, my gratitude burst out into a promise, that I would teach your most respectable so-bishop of Carlisle. earty to convert the worst acre in Cryperland (except in extreme cases) into meadow that should produce orups of hay superior both in quantity and quality, to any now growing on your very best.

The flattering confidence you yourself were so good as to say you placed in me, abated much of the surprise my extravagant promise might otherwise have ex-

And in the delightful, and extensive tour, in which I and the honour to accompany you, opportunities were perpetually occurring of discussing the practicability of reclaiming varieties of ground mostly wet peaty moor. and now in a state completely unproductive.

facility of converting every such barren tract, into fin- competitors; these moors and cut out moss, are the rin meadow, of great value, and of all descriptions of cleanest stiles of ground I have cultivated fiorin upon. ground, Peary Moon is the most rapidly brought into and I must add, have produced crops of the greatest

profit, and at the least expense.

Happily too in a course of between 200, and 300 miles through Cumberland and scotland, peaty moor was almost the exclusive description of all waste grounds.

I well recollect our discussing the subject as we pass-learth, while the moory soil is sufficiently solid of itself, ed Solway Moss, and my pledging myself that I would than any now in Cumber and.

bring much attention.

On the 20th of april, 1811, I began to cut my turf on -

I laid down this ground with fiorin, roots, and strings,

with askes burned contiguous.

Late in October, I mowed this piece in the presence wise, by Dr. Richardson:—

| OSir James Stewart of Collness, of our friends Mr. | How clearly did our fscientific host the venerable
| Was further corroboration necessary to prove the Boyd, Metton-Hall, Mr. Mrc. Culloch of Ardwell, with Bishop of Landaff explain this new principle of nature advantages likely to result from the cultivation of this other gentlemen, and I have their authority for saying, discovered by himself? valuable grass, I might adduce the testimony of the gen-that the crop seemed to be trible what they had ever seen mowed from so much ground, admitting at the same time that it was unfit for any other culture

It is not for me to talk of the quantity of such Moon xtended over the face of Compeniand, Westmorland firm every statement made by Dr. Richardson; and Dumpaleshire, and Galloway, it is a fact of too much place the henefits likely to result from the fiorin, even inotoriety, and long a subject of complaint; it is my higher than he has done. Mr. Boyd in a letter I had duty to shew how these dreary and barren wastes, may

> of fiorin .- First the ground must be kept in a medium between wet, and dry, easily effected by frequency of small drains; shallow (that is 12 or (4 inches,) where drought is apprehended, and then they are to be stopped by little dams, as the dry season approaches,— deeper where the moor is wet, and much water to be

Above all, stagnation of moisture is to be guarded against, as most injurious to vegetation, but no redunremember the great deficiency of crop in the moist parts of the fiorin meadow of friend (otherwise well laid down) but to which the drains were not made so

frequent as I had ordered

The fact is beyond doubt; but the philosophical principles upon which the injury of vegetables from torpid trust, be received as a proof of the esteem and respect moisture depends, I never anderstood, until in company with you, I heard them clearly explained by an the only scientific botanist I ever met with, who was not led astray by linnean folly. I need not say I mean that great and valuable dignitary of the church the

> The next general maxim to be attended to in the cultivation of fiorin, is that this vegetable must have exclusive possession of the ground; no mixture of other grasses, nor a weed suffered to interfere with it, every moderate expectations, prior occupant must be exterminated in the preparation of the surface, every weed pulled up as it appears, and every other grass taken up by the roots in May and exe when they show their species by their panicles.

Weeding (and especially for the first year is heavy task in warm arable grounds, and deep moist hottoms; where for want for fall it is difficult to dis-moved, and completely dry for storage. charge the waters; but in barren moors to which I am particularly anxious to call the attention of our Cum-I believe I convinced you of the practicability and berland, and scotch friends, the fiorin will have no luxuriance.

> The wet Moors, are much more favourable a soil for fiorin, then the more Spungy fibrous Peat Moss; the latter must be consolidated by an admixture of firmer

ad so rich as to give tolerable crops without any reclaim so much of it as we saw from the road, at an manner; but where ashes are so easily acquired, who expense which should be repayed by the sale of two would decline to procure on light terms, a majore crops of its hay; leaving robever a better meadow which we know forces from luxuriance to a maximum?

ben preparing the moory ground for a crop of The rapidity of the change with he bust understood norm, it must be made level, and completely RAW, every by the foil wing f t, upon which i have laboured to vegetable exterminated, and it must be opened, or loosened, to the depth of at least ten inches.

I may be asked, why prepare the soil to such depth, round less favourably circumstanced than the parts for a vegetable, whose roots scarcely penetrate one we saw of Solway Moss; having previously shown the inch; I confess the superior luxuriance of fiorin in ground to different persons explaining my intentions, deep soils, has often embarrassed me; you first solved the difficulty to me, by satisfying me that the evaporation of the earth was a most powerful agent, and stimu-April 24th, without soil or compost, manuring it only later of vegetation, of course where the earth was hard bound up, immediately beneath the roots, evaporation was impossible and that powerful stimulus intercepted.

In the preparation of our ground for fiorin we must evail ourselves of this principle, without losing sight of the peculiarity of our regetable, whose roots pencirate so short a way into the ground ;-on the former account we must till DEEP; and on the latter we must keep our manure better up to the surface, than in the culture of any other vegetable.

The Scotch and English understand every species of tillage so much better than we do, that I shall not presume to discuss PRACTICES with them, I shall confine

my-elf to principles.

When told paring, and burning, must be an admirable stile of preparation for fiorin, I reply are you sure you till deep enough? and that your plough does not bury your ashes? Below the roots of the vegetable you wish them to stimulate into action?

With a view to the latter object, my process is as follows-having tilled the ground to the proper depth, in the easiest manner its circumstances will admit; I spread make my manure, be it ashes or compost, over the level surface, and then with a harrow if it will bear dance is mischievous, if of short duration, you must it, if not with a spade, paint in and mix this manure with the upper soil, to the depth of an inch and half, thus curiching the Matrix, to be occupied by the roots of the vegetables.

I then scatter my florin strings (no matter whether cut or not on the surface, and spread the remainder of my manure over them, to which if not sufficient to NEARLY cover them, ladd as much of the surface soil as is necessary; the business is now done, protection eminent Cumberland personage, then our host, perhaps from external trespassers, and rival weeds, and grasses within, alone remain.

Before I proceed to detail the mode of saving the crop when ripe, and to name the period at which I recommend fiorin meadows to be mowed, I must state the probable value of the crop, that by the promise of enormous quantity I may rouse attention to the measures I recommend which might not be encountered under

You, sir, with probably the same feeling, having satisfied yourself of the immensity of horin produce, by examining and weighing the luxuriant fiorin crops of your friend Genl. Dirom, at Annan; and wishing to impress the same conviction upon others wrote to me to ascertain the precise amount of an acre of fiorin, both fresh

I rejoiced at the call, and though I had in three former seasons ascertained by unexceptionable witnesses the amount of an English acre of dry hay, to be six, seven, and eight tons; I repeated the same trial, and moved on September 16th, the twentieth part of au aere

To the weight when fresh cut I annex little importance, erronnistances must vary it so much, but the weight of the hay when dry, and fit for house or rick is

As I was setting out to Workington I was obliged to commit the charge of weinning (when dry) to a militay friend high in rank; his report reached us at Dumfries, and with the other authentic documents on the ubject, is deposited among the re-rds of the Agricultoral Society of the stewartry of sirkendbright; they e-tablished the weight of the crop mowed by your desire, to exceed eight tous and one quarter, to the Ensuch acre, when renegray pay (my friend's phrase);

Lo- nas been established in as many separate sea- grate. sons, -The great duference in value of the crops of florin, and other grasses, (the latter seldom far exceeding two tons;) will I expect secure attention to my statement of the natural history of the two descriptions (fiorin and common grass) with the assential difference between them, upon which such opposite results de- rant growth of every fiorm acre I have standing

Every variety of grass of which we have hitherto been used to make hay, gives us two different productions, the leaf and the stalk (culaws); this latter contains the whole seminal apparatus, is the part we preserve as hay, comes to its perfection in its inflorescuce, and should be moved then, or very shortly after.

But in all our grasses hitherto saved for hay, as with most other vegetables, the life is indisolubly connected with the root, so that the produce when severed becomes dead inanimate matter, and like all other vegetable and animal substances, when deprived of life hastens to putrefaction through the usual process of fermentation.

use, our process is obvious; we give it as much surface ripe as we can, exposing it both to sun, and wind, to evaporate, not only the atmospheric moisture it may have acquired from rain, and by which fermentation is encouraged; but also its own crude, aqueous juices, which stimulate to fermentation still more.

When by stirring, and exposure for a sufficient time, we get intirely rid of the former, and as much of the latter as we consider dangerous; we venture to ac-

cumulate for store and call it hay.

Such are the principles, and the practice founded upon them, by which we have hitherto been used to convert our grassy produce into winter provender.

Let us now examine the vegetable substance which I have brought forward into notice and recommend to be substituted in the place of the hay, we at present use, as possessing infinite advantage over it, and productive of the greatest benefit, to the consumer, to the LANDHOLDER, and above all to the STATE ITSELF.

I have said that the only produce of the grasses with which we are acquainted is the STALE, and LEAF. Naunlike the former; in its remons of growth ;- in its HABITS - and still more in its valuable properties.

This grass producing leaves, starks, and seed, like the rest of its tribe, as Ju e is advanced begins to exhilnt its own characteristic marks, and to project shoots, which creeping along the ground, and vegetating without interrupt on, acquire great leagth, and from their number and leagth accommand into a any crop ever produced by any other of the grassy trabe

I first brought serious attention on this after pro duc of the Agrous stolomfera, these long strings, by botanists called STOLONES; and neglecting the leaves and stalks; collected and saved by itself for use, this new vegetable maderial, and with great diligence investigated its nature, and traced the singular properties by which it differs so essentially from the produce of all other grasses.

The first and most important is that in these Sto lones the principle of vegetable life, independent of and unconnected, with the root, as in the others, pervades the whole stolo, or string, animates all its parts equality and un disturbed by the scythe, pervades the ory, and even housed hay, for many months.

I have elsewhere stated the pains General Trop-TER and I took to ascertain this point, bringing from farmer, avails himself of his experience exactly so far the cock in the field, and at the same time from no harmonia strings, and trying them in my hot ho se, where the, always vegetated ;- from December to the beginning of May; then the principle of Lifseemed to be extinguished; and now the same little sock which had braved the winter rains, began to first and with the first June rams rotted, and was thrown to the donghuil.

This retention of the principle of life, discovers it self in prictice without the trouble of experimenfor when our trapp-cock or shake-cocks, stand long in the field the ropes that hold them ught, like the joether, and stored quer, would certainly spoil.

This is the fourth time the immense amount of fiorin bands of our sheaves of corn in a bad harvest, all ve-

ters from common grass, is the uninterrupted vegetation of these stolones, which never stop lengthening afterwards, 1 go round them again and turn them their string; that is to increase, the quantity of their produce; the eye is sufficient to establish the luxu- the wind through this wet November; and two years ago I was able to ascertain that the stolones were vegetating and lengthening through February, and an unusually deep snow, and in severe frost.

This perpetual vegetation from the middle of June, should reconcile sceptics to the immense difference between form crops and those of common hay, when hey know, that the period in which the grasses that form the latter, vegetate with strength, and increise i en quantity, rarely exceeds seven weeks.

From the time the crops of common grass attain their perfection, they begin to fall off, the stalks become lightous, the leaves collapse, and rot; here the When then we wish to preserve this substance for farmer has no option; he must mow his hay crop when through the winter, ready for use as wented.

With florin the case is quite different, for consisting of animated scolones, which never abate in qualiis, the crops may be moved, and afford excellent hay aron the beginning of September, to the end of April; putrefaction, and evaporation; and we find the whole and in every week in that period, I have mowed florin of the same quality, and saved it with case

But though this strange measure succeeds in small quantities, I do not say it would suit PRACTICE in a

provisions ready for use when wanted.

When then should fiorin crops he mowed? that is, how long can we venture to avail ourselves of their increase of quantity, without exposing ouselves to the danger of having more green hey on our hands than we can manage in the short days and rainy weather, we have reason to expect?

I reply, through the whole month of October if the crop be large, and the latter half, if it be moderate, or small; -as in the making of this florin into hay, ture endows the acrosses stoloniferin (our fiorin) with much of it must be thrown into November, a season a third species of produce, different from, and totally in which the hay, that we are acquainted with can scarcely be saved; the prodence of so late mowing has been questioned.

But here the minciple of life peculiar to fiorin stolones, comes into our arl, and enables us to save the hay composed of them, with more ease, and certainty,

than common hay is saved in summer.

Emment philosophers (as I have stated elsewhere) prove that the principle of life, irresistibly counteracts neece, or mass of grass, far superior in quantity to both, putrefaction, and evaporation; hence wet, that so much contributes to rot common hay, is to florin quite innocent; Mr. MILLER of Dalswinton, and I separately, made the experiment; he steeped some, of his form eleven days, and I sunk mine at the bottom of my pend for thirteen, neither of these parcels sustained the slightest injury, nor when again dried, was he predilection of cathe for them in the least abated.

I had small lap cocks p. thaps twelve pounds weight, which stand in my field neglected, and untouched for four months last winter, the wettest season remembered, yet they did not sustain any damage, and for four making, in the field, every day from October 1st. to March, and numbers coming to witness the strange Drocess.

Let me not be minunderstood to recommend such xtremes, it is the duty of the experimentalist to try howers to the utmost; while the cantious practical Kirkcudbright. as is prudent and no farther.

I recommend from hay to be moved in October a period so late, as to give good time for the stolones to lengthen, yet sufficiently early to save the crop with ease, and to have it ready for use when wanted

I proceed as follows; I shake out my sward the day it is moved and roll it up into 1 p cocks, damp as it may be ;- I am not afraid of atmospheric water, while in the field, but my great object is to get rid of it. that I may be able to accumulate, as notwithstanding 4 anteseptic powers of form, a quantity pressed to-

My tap cocks remain untouched for a week. I then scize the first dry moment, go round them, turn the The next remarkable property by which fiorin dif-diamp side to the wind, and gently raising them up so as to loosen them that the air may penetrate, an bour over with the point of a stick, exposing their basis to

> In another hour, I go round them again, tighten them up, make the base as narrow as I can, and keep any hay that may be wet on the top.

When they have stood another week, I repeat the same process, never breaking up a lap cock.

After three or four days, I put them into shake cock; that is, I accumulate as many together as can be heaped up without treading, and hold them tight by a robe or two.

When they shall have stood thus for a week the hay is quite fit for use, but as the quantity probably tar exceeds the immediate demand, it will be prudent to accumulate these into common tramp-cocks of 15 or I hundred weight, which may stand in the fields

I shall be told these cocks will be spoiled by the severity of winter weather, no doubt common hay would, but the animation of the material of which their surface is composed, protects fiorin both from mass equally fit for use, when in tramp-cocks of common hay, much of the outside coating, must be thrown. away, spoiled, and rotted by long exposure.

I proceed now to another description of ground, still great scale; besides, we require to have our winter moore favourable to fiorin culture, and more extensive at least in Scotland and Ireland, wet peaty mountain,

I say more favourable, because the declivities make drainage a matter of great facility; and the skirts of the mountains where improvement will necessarily commence, must be all capable of irrigation from the commanding upper rills; and of all grasses fiorin is most improved by irrigation.

In the transactions of the agricultural society of the stewartry of K rkcudbright, (cop es of which were in o flattering a manner presented to you, and to me) I find a very intelligent memoir by one of their vice

Presidents, Mr. Mune.

This gentleman dividing his country into three districts determined by their respective elevations; of the highest, or n ountain district says "But the greater part of the (mountain) moors must be limited to the breeding of sheep, and young cattle, and of grazing highland cattle; want of tillage and meadow ground, and consequently of folder limits greatly the breeding of cattle?

What will MR Mune say to the introduction of a stile of culture into his mountain moors, to which it bas been objected that the immense quantities of hay it would produce, could not find a vent.

The objection was made to Mr. Miller of Dalswintor who was preporing for florin, tracts of mountain moor to an extent I dare not mention; he was asked how will you dispose of the hay? my good old friend replied, I shall send it to market on its legs.

It will be doubted, that fiorin will vegetate in AL-PINE climates, where other culture is given up as desyear's past I have had hay in the common course of perate. I reply that where a vegetable thrives spontaneously it may also be cultivated.

> That this hardy grass does grow spontaneous, on our highest mountains, is a question of FACT, for the truth of which you heard nie call for the testimony of the noble President of the society of the stewartry of

> I addressed the Earl of Selkirk in his chair, and asked him if he had not, at my request, gone to the summit of Knocklaid Mountain to look for fiorin, and if he had not found it there in abundance? The height above the sea is 1600 leet.

> I was then speculating a priori; but now the fact s established by the luxuriance of the fiorm I planted far up on the Marquis of Abercorn's Mountain, and will more by the extensive meadow had down yet gher on the Marquis of Hertford's wet and pearly mountain above BELFAST.

F To be continued.

# Treatise on Smut in Wheat.

THE EARL OF CHESTERFIELD

Has ordered, that Copies of the following Extract from the Farmer's Journal, should be distributed amongst the Tronavry on His Lordohio's Estate. And Anald deep have any Communications to make out the Subject, they are requested to address their I etters to Mr. BL (KTE, annien lose them

EXTRACT FROM THE FARMER'S JOURNAL OF THE treated of. 2d of september, 1811.

To the Editor of the Farmer's Journal.

your Journal, you are at liberty to make use of them having Smut amongst their following Wheat crops. for that purpose.

As the Wheat seed-time is now approaching, I consider it a matter of great importance, that every farmer shout t use proper precautions against the probability of his having any portion of Smut amongst his Wheat

cross, in the produce of the following year.

I am aware that many Agriculturists will think it give information or instruction on the subjects; others I have before described. will scoff and say, there is nothing new advanced, and theory and the practice.

tract the eye and command the attention of some far-plications; made to produce clean crops. Such, how mers of different descriptions from those I have before ever, is the fact. mentioned. Should that be the case, I shall feel satisfied, and fully compensated in the hope, that the countries about preparing the Wheat seed, but continue to adoption of the rules here laid down.

der the patronage of the Earl of Chesterfeld, (whom advance. That with proper attention the disease may, I have the honour to serve in the capacity of Bailiff,) I in a very few years, be totally eradicated. have no hes tation in stating my opinion to be, that the ficient for the Agriculturist to be convinced that the efficacious. disease is highly infectious, and that it is, in many instances, but too easily communicated to the seed, in operation, I recommend, that previous to all other atwhich state the inoculation is effected.

fine black dust of Smut, and with it innoculate the re- a new-laid egg. The Wheat, after being well wasted g. and, at a distance from the other part previously hours. the produce in the following season.

nature of the disease, the most desirable purpose has

infection.

The disease is frequently communicated by various well swept into the crevices of the floor. insidious means, seldom sufficiently attended to, such Wheat is taken out of the pickling tub, and laid on the as-by putting pure Wheat into foul sacks-by spread-lloor, it should be well dusted over and mixed with ing it on a barn floor where smutted. Wheat had previdence, or caustic lime; and if turned over by a shovel, only been thrashed-by the means of thrashing and or stirred about by the teeth of a rake, it will dry faster withhowing machines, &c. &c. The infection is also not unfrequently carried from the bara door where smatted Wheat had been winnowed, the dung being sown. Should the weather prove unfavourable at the re moved from thence and laid in a green state upon land time, the seed will not take injury from being cickled, intended to be sown with Wheat.

Although, according to the theory I now advance, Biz, where there has been no infection communicated signally. to the red, there will be no Smut in the produce; and

ous manner, so that it is almost impossible to be sufficiently guarded against it, without the aid of washes,

It has long been an established practice amongst in ing to most Agriculturists, and I may say of great im- wise preparing the seed, for its being deposited in the Wheat called Smut, Bants, Blabs, &c. Should you rience, that on the proper execution of the process of think the following observations worthy of a place in pickling, depends their safety against the probability of

I am sorry to say, there still remain a few pretended such as - that it is occasioned by the state of the weat very dangerous expedient and ought to be discontinued. ther,-by the situation of the land-by the nature of the soil—and by various other causes, equally erroneous and absurd. To such men I strongly recommend presumptions in mc (so little qualified) to attempt to to try the effect of innoculation, in the simple manner

Another class of farmers are convinced by expe that they have long been fully acquainted with both the rience, that smutted seed will produce smutted crops, and are therefore more e reful in the selection of But as my views are purely disinterested, and I will Wheat for seed, which they frequently sow in the same even say, patriotic, I shall not be deterred from ventur- state in which it is bought; consequently, not uniteing to communicate my ideas on this very important quently disappointed in the produce, not being aware subject; being in hope that (should you deem the of the infections nature of the disease; or that even treatise worthy of a place in your Journal) it may at-highly infected seed may be (by the proper use of ap

try will be ultimately benefitted by a more general sow the same produce, without change, for a number of years in succession, yet are never troubled with Smut. As an introduction, I shall first state, that being fully Such instances are in corroboration of my assertion, convinced, by a series of experiments made upon this that if there has been no infection, there will be no disfarm (BRA BY, in the county of Derby,) carried on un-lease; and is also in favour of an opinion which I now

Since the advance in the price of salt, the expence of Sant in Wheat is a contagious disease, the nature of good brine or pickle, has become of much considerawhich being foreign to the pursuits of the practical Fartion to farmers, and in consequence, various substitutes mer, can be best explained by the Naturalist. It is suf- have been adopted, which have frequently proved in-

In attempting to give directions for this necessary plications, the Wheat should be well washed in pure To prove the foregoing assertion, any person having water. This process is performed with facility by do this, may try the effect of innoculation on a small means of close wicker baskets, in which the Wheat scate by means of the following simple process. Take may be put, and immersed in running water, or in tubs, in pure water, and on some spot in the farm-garden, Wheat be well stirred up, shook about, and the refuse, or ther convenient place, sow one half of the Wheat skimmed off. The pickle or brine may be made of in its clean washed state; then take a portion of the coarse salt and clear water, sufficiently strong to carry maining half of the washed Wheat. This may be done must be put into the pickle, and the quantity proforbutting the smot dust and washed Wheat together tioned to the size of the vessel, so that the Wheat is into a small bag, and shaking them well. Let the compleatly covered by the pickle; let it be stirred up Veneat remain in the bag a day or two, or more, till it several times, and all refuse skimmed off. The Wheat is dry, and afterwards sow it on a convenient spot of should remain in the pickle from six to twelve, or more The pickle must then be drained off, and with so.ru. The result will certainly prove satisfactory by the addition of a little fresh salt, will be ready for the next steeping. When the Wheat is taken out of the When a farmer becomes convinced of the infectious pickle, it should be spread over a baro, as other flow to dry; and here it may be necessary to remark, that been effected, for he will ever after be careful to avoid where there is any danger of infection from the floor it should previously be dusted over with quick hime The infection is also and be sooner ready for sowing; and if run through a Rarley or Oat riddle, it will separate better as it is should it not be sown for a formisht afterwards, profithe business for spring. sided it is spread than on a dry floor, and t-roed occa !

Another method of pickling is sometimes practised digging bowever strict a farmer may be in adhering to this sys- with success, by immersing the Wheat into, or sprink-form this work, than at the time of planting.

tem, and of course cautious in guarding against infec-tling it over with state chamber-ley, and afterwards tion; yet I do not advise him to trust to caution alone dusting it over with quick line; but this method, alas a safe preventive; for, as I have before observed, though much cheaper; is not so adviseable as the forthe infection is frequently conveyed in the most insidi-mer: because, by the latter method, the operation is frequently not preformed effectually, there being much danger of the seed being hid and by the strength of the chamber-ley. So also the Wheat pickled in this mager requested to address their (exters to Mr. BL IKIE, amientos them) state EARL of CHESTERFIELD, at Bradby Had, near Eurors upon-typtics, &c., &c., and I strongly recommend a proper chamber-by. So also the Wheat pickied in this ma-attention to their application in the manner hereafter ner must be sown immediately after it is decised, be the state of the weather what it may; for if kept out of the ground for a time it would be perished, that is, its telligent and unprejudiced farmers, to be very careful, vegetative powers would be destroyed; whereas, by not only in the selection of Wheat for seed, but also in the former method no such danger is to be apprehend-Six .- I Venture to address you on a subject interest- attending to well washing, brining, steeping, or other- ed, and is therefore to be particularly recommended where drill husbandry is practised; as the seed may portance to the Community at large, viz. the disease in ground, being satisfied from perhaps dear-bought experienmen with safety till it is quite dry, before it is sown. which will prevent its clogging in the seed-cups, it being liable to do so, if sown when wet.

Many other methods of preparing seed Wheat are practised, and many ridiculous nostrums are made use Agriculturists, perversely and obstinately attached to of for that purpose, one of which cannot be too severeopinions they have formed on the nature of the disease. By reprobated, that is, the use of solutions of arsenic, a

> Ishall now, Sir, commit the foregoing observations into your hands, leaving it to your discretion to make such use of them as you may think proper. I subscribe myself,

Your humble Servant. FRANCIS BLAIKIE.

Bradby Hall, near Burton upon-Trent, Aug 27th, 1811.

KITCHEN GARDEN, FOR NOVEMBER.

(From the American Practical Gardner, published by Fichling Lucas, Jr )

[Continued from No. 33.--p. 264.] FRUIT GARDEN, FOR NOVEMBER. Raspberries.

The red and white Antwerp raspberries are excellent fruit, but less hardy than the other varieties; it will, therefore, be necessary in the eastern and middle states, to lay down the shoots of the present season, unmediately previous to the severe frosts, first cutting off close to the ground, the shoots which bore fruit the preceding summer. The supernumerary, wealtly shoots may likewise be cut off, and also the straggling tops, or they may have a general and final pruning.

Then dig the earth between the rows, and add some very rotten manure, after which, being provided with some hooked wooden pegs, and a number of long pliant hoop poles, lay down each row of shoots, gently on one side, on these lay the poles lengthwise of the ows, perging them down with the hooks, so as to keep the sheats of se to the earth; after which cover all over with light litter of any sort, in order to protect the plant's from the effects of the various changes of the weather, as well as from frost. Here they will a few handsfull of perfectly clean Wheat, wash it well eisterns, &c.; but whatever method is used, let the remain safe till the beginning of March, when the litter is to be taken off, the planks raised up, and the ground roccive its spring dressing.

### ORGHARD, FOR NOVEMBER.

Planting and Choice of Situation, &c.

This being the most suitable season for planting out fruit trees of all kinds, after remarking that the soil should always be a dry rich leam, the observations made in January and February are referred to.

Apples, pears, quinces, plums, cherries, peaches, nectarines, apricots, and almonds, may now be planted; also, walnuts, chesnuts, filberts, persimmons, med-tars, berberries, and every other kind of hardy fruit trees.

Pruning.

You may now commence the pruning of all fruit trees, except stone fruit, as there is more time at this season than in the spring; but if it was not for the pressure of business, the spring would be preferable for all; the stone fruit must be omitted pruning till then.

# NURSERY, FOR NOVEMBER.

General Observations.

Continue to dig and treuch the round, to forward

Where it is necessary to mannie any part, it should he carried and spread over the ground, previous to his season will be more suitable to per Protecting Seedings and young Plants.

All seedings, that are rather tender, should have hoop arches over the beds, and at the time of severe frosts, thick mats, &c. placed on them, in order to protect the plants.

Every kind of hardy plants in pots, should now be removed to such places, where they may have suffi-cient protection in severe weather; for if fully exposed to the frost, the plants will be injured, and the pots broken by it.

When hardy and exotick plants are set out in large pots, these may be plunged to their rims, in a warm border, and covered six inches deep over their edges. with tanner's bark, &c. which will considerably pre-

The more enrious kinds of evergreens, and other plants in pots, should be removed into the green-house, or under garden frames, with glasses or other co-

Care of new planted Trees.
Tie up all new planted trees to stakes, especially those which may be exposed to the winds.

Lay some light litter over the roots of the more tender kind of trees and shrubs, to protect them, in some measure, from frost.

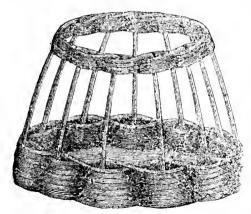
Pruning Trees and Shrubs.

stems of such as require it; but the more tender sorts poor spots, sheep in resorting there, manure themshould not be pruned till spring.

# SHEEP.

A SIMPLE CONTRIVANCE FOR FEEDING SHEEP.

This contrivance is denominated a tumbril; it consists of a circular cage or crib, which may be made of osiers, willows, or other pliant broshwood. The whole is about ten feet in circumference, and closely wattled to the height of about one foot, above which it is left open for dustry of the United States has been so benefithe space of eighteen inches; it is then wattled cial to them as the adoption of new objects of again to the height of eight or ten inches, and culture by the planters and farmers, whose old New Vevay, in Indiana, and the Gulf of Mexico, an opening about eighteen inches in breadth is objects of culture were likely to become redunleft at the top for putting in the roots or other dant, and to fall in price. Cotton and sugar food, whether green or dry. The staves which are well known and important examples. There Indiana, and large parts of Virginia and Kenform the skeleton of this utensil are ten inches asunder, so that twelve sheep may feed at the same time in each tumbril.\*



Considerable benefit may be derived from the adoption of the simple contrivance above represented for the purouse of feeding sheep; for it not only effe ts a material reduction in the consumption and expense of provender, which is thus prevented from being trodden under foot, or soiled with dung; but also, in this state of

away the weaker, as each is secured by the head | quantity of foreign cotton cloths from India and Besides, as the construction of such a tumbril is Europe, and a greater revenue from the foreign attended with no difficulty, it may be easily manufactures of tobacco, and a still greater reprocured, and conveyed to any part of the farm; venue from the foreign manufactures of grain, of and, with due care, may be kept in constant fruit, and of the cane, to the great fundamental use for eight or ten years.\*

\* This tumbril so simple and easy of construction. would be found useful in the facility with which it may be moved, and set down for any given time or poor galled spots in the field - The manure dropped about it, would restore these spots to the common level of fertil ty, and thereby cure these offensive enesores, so disgusting in the view of all thrifty farnices. A practice observed by Mr. Ward of Cocal, in the hanagement of sheep, may here be appropriately introduced - It is copied from the Editor's note book,

dated November, 1814.

"Mr Ward of Cocil, has 135 sheep, which in warter he feeds on wheat straw, salted, say half bushel to and Harmony, of the same state, on the north, the straw of 100 bushels—gives to the above half and the coasts of the Gulf of Mexico, on the bushel corn three times a week-sheared 44 lambs south the United States passes the climater 1st July, product 1121 pounds wool.-Sold to the Hardy forest, ornamental trees or flowering shrubs, batters at 80 cents per pound -thinks they wintered &e. may now be brought to their proper form, by cut-as well as those not shared, and that the quality of gions of France." The sweet orange grows, in ting off the straggling branches, and trimming up the the subsequent fleece was improved -sprinkles salt on safety, in groves and gardens, in the vicinity of find that they prefer lying on naked land." A good than any place of equally safe growth, in Proplan would be to plough up poor spots in a sheep pasture in summer, they will always go to such places to rest during the night.

Editor Am. Farmer.

FROM THE NATIONAL INTELLIGENCER.

On the Grape Vine, with its wines, brandies, and dried fruits.

No principle of action in the business and inare good grounds for estimating our whole cotton of our best year, (September, 1817, to September, 1818,) at forty-two millions of dollars, according to the price on the wharves of our sea-ports for that which was exported to foreign countries, and the price at our factories, stores, and dwellings, of that which was manu. country of France alone-though our vine counfactured at home. It is now manifest that the try is more than twice the size—has been esti-East Indian and South American cotton greatly mated at 100 millions of dollars. Let us then injure our markets; and as this arises from consider the propriety of a diligent enquiry into growing, permanent, and substantial causes, the cultivation of the vine, and the preparation there is reason to expect the continuance of the of wines, brandies, dried fruits, and cremor tarinjury to us from the foreign rival cotton culti-fter, in the United States, in order to maintain vation. A brief and plain view of the history the prosperity of the landed interest by the and prospect of cotton, will be found in the Phi- variety and prices of our crops. ladelphia edition (A. D. 1818) of Rees's English Cyclopadia, by Murray, Bradford & Co. fermented spirits and liquors, (brandy, gin, rum, under the article or head of the " United States." arack, wines, beer, ale and porter,) and on dried

reflections, in the minds of the landholder and and the manufacture of the grape. The demand the state-man, upon the subject of the protec- will increase with our population, and the facilition of the productions of our own soil. The ty and certainty of the culture and crop will industry of the landed men of the United States grow with the clearing and draining of our counis manifestly and unalterably much greater than try. Ridges, hills, mountains, tocky lands, any any, and than all, the other branches of our do-sestic or national industry. The mercantile infector rands, (it only dry,) will yield profit in and manufacturing branches result almost en-large crops or in fine qualities of wine, or both, tirely from the landed industry. While the e-Fresh and dried grapes are both favorable to fore, the legislative and executive governments health and frugantly. Ripe grapes have been

separation, the stronger sheep cannot drive raise revenues of 271 to 60 per cent, on a great and convenient support of American manufactures; and while they are free to go further, if they find it right, in the joint encouragement of our agricultural and manufacturing industry it will be found beneficial to the landed interest to enquire into other means of proposing the prosperity of the Colossus of our country-the agri-

cultural industry.

There can be no doubt that, between the sites of the vine-yards of the Lower Schuylkill, Southwark, of Pennsylvania, Butler, of Pennsylvania, Glasgow, of Kentucky, New Vevay, of Indiana, south, the United States possess the climates and soils of "the vine-covered hills and gay re-New Orleans, at a greater distance from the sea vence or Languedoc, of France. As our country shall be cleared and drained, our climate will be still less severe in the states on the Mexican gulf. In the north, our climates of New Vevay and flarmony, in Indiana, Glasgow, in Kentucky, in 37 to 38 degrees 30 minutes N. which are the present northern extremes of successful experiments in the vine cultivation, are as favorable and mild as the climates of Champagne, Tokay, Lorraine, Burgundy, and Hockheim, which are line northern regions of the vine in France and Germany. Between our the states of Louisiana, Alabama, Mississippi, Georgia, South and North Carolina, Lennessee. tucky, must give us all the vine climates of France, Germany, Switzerland, and Upper Itaby. This vine district of the United States is much larger than all those vine countries of France, Germany, Switzerland, and Upper Italy. The crop of wine and brandy in the vine The present duties on foreign distilled and

he facts there stated, with many known sub-fruits, though laid for revenue, afford a great sequent circumstances, will give rise to serious and sure encouragement to the establishment

<sup>· &</sup>quot;Repertory of Arts and Manufactures," Vol. IV First Series.

dysenteries.\* The quantity of wine computed to be produced in France is ten millions of casks. ated in about the same parallel of latitude as New deedy, by mistaking the second for the first year. of nearly 63 gallous each, on two millions of foundland.-The European Islands are susceptible of arrents (not 2,2000,000 acres) of land, often the highest agricultural improvement, and are lite, the period when the sap begins to rise. not lit for wheat, rice or tobacco, valued very low, on a medium at fifty francs the cask or French hogsheads. This is three times the and wholly unsuited for habitaton. value of the cotton crop of the United States. rature below which particular productions cannot be on a medium value, produced in 1818 or in 1819, cultivated with success. and demands our early and serious attention. particularly from the Gulf of Mexico to the end of the 39th degree, when the country in that degree shall be cleared and drained in its wet or marshy parts.

It has been already observed, that ridges and hills are the most suitable shape or form of country for vineyards. The most proper exposure. is from south-east to south. It is believed that all southern exposures will do. The propagation may be by seeds, or by cuttings, or by bending and covering a part of an old vine so as to make it grow out in another place at a proper distance. The plungh is of much use in the cultivation, so that care must be taken to plant the vines at such distances as to facilitate the use of the plough and the harrow. The best grapes which can be obtained should be used, in order to put the culture forward. These may be foreign or American, native or imported. A harsh grape to the taste may produce a better wine than was expected, and more and better brandy. The finest grapes of Europe and the African isles are supprised to be native wildings improved by culture and selection. The region of the plum and peach appears to include the region of the vine. Although the south is the proper sphere of the grape, its cultivation there will leave the bread grains, tobacco, hemp, the grasses and cattle, to the more exclusive and profitable calture of the states north of the proper region of fine and abundant crops of wine. We pay annually to foreign nations a sum of money for wines, spirits, and materials to make spirits, and for fresh and dried grapes, as great as our whole specie medium. So important is tais subject, in various points of view, to all the states, that it is respectfully recommended to the superintendan's of all our publick, agricultural and philosophical libraries, to procure all the treatises on the culture of vines and making of grapes which are to be found in the languages of France, Germany, Spain, Italy and Great Britain.

A Friend to the National Industry Philadelphia, Nov. 1, 1819.

\* See Dr. Tissot's advice to the people of Lusanne,

Note by the Editor of the American Farmer.

It is to be regreted, that more general attention has not hitherto been paid to the keeping of accurate Meteorological tables; if it were for no other purpose than to save cultivators, from engaging in many expensive experiments which theorists have induced them to undertake by confounding one climate, and the course of hisbandry of one country, with another, merely because, on an inspection of the map, they happen to lie in the same latitude. The City of Baltimore is in latitude 39° 20 north. The city of Seville, in Spain is in lat. 37, 32. These cities are situated about a s miliar distance from the ocean. At Baltimore the winters are remarkably severe; with every precantion the rig, as a shrub, can scarcely be preserved from defection, the access of insects or impurities his so a accomplished: he observes, however, that struction by the intense cold. The neighbourhood of Annual roots are in the greatest perfection just before such interference should be earefully avoided, until

ad numbered to whole regiments of troops in Seville, is abke famous for its Olives, Oranges and their shoots spring forth, and biennial ones in the France, who have been ravaged by fluxes and Xeres, or Sherry wine; indeed is only surpassed by the West Indies in the growth of the Sugar Cane.

The Islands of Great Britain and Ireland are siturally cultivated like a garden, while the American Island, has been abandoned as being too bleak, cold,

We are told by philosophers, that the mean tempe-

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		$\mathbf{M}_{\mathrm{tol}}$ .	$D_{cg}$	Sic.
		43	52	30
	Olive trees	35	37	$\mathfrak{J}0$
	Orange Trees	62	23	30
	('off' e	61	37	30
Į	Sugar Canes	- 68	00	00
1				

1817, which was unusually chill and wet 52° ½.

Extract from Cuptain Lewis Brantz's Summary of Meteorologica' observations near Baltimore, for the rears 1517 and 1518.

YE	YEAR 1817.			YEAR 1818.			
MONTHS.	hert's	Water inch, 1-1		hene's			
January,	52 = 1 523 = 3	2 2	1-2	3107		9	
Tebruary,		2	8 .	28	2	_	
March, -	11 8 33 4	4 2	1-2	29 3	S		
April, -	53 4	1 2	1-2	16	2	1	
May,	39	2;	6	57 -	6	44	
June, -	69	9	1	71	1	14	
July,	171 3	3	5	76 ±	-1	i ~	
August, -	171 3	10	4	73 -	- 1	_	
September.		3	3	63	3	2	
October, .	52 4	1	8	51 3	3	1	
November.	15 2	3	7	45	5	_	
December,		3	6	29 3	2	6	
	mean	15 5	1.2	mean -	33	6	
	of the		- 1			r fal-	
	year.	inch		1		n.	
	3-2	wate	r.	50 1-7	10	11.	

Greatest cold in the year 1817-15th Feb. at sun rise, 4° below 0-and the greatest heat 30th July, 930

Geatest cold in the year 1818 - 10th Feb. at sun rise, 20 below 0 and the greatest heat

It is worthy of observation, that although the summer of 1818 was remarked as unusually warm, the mean temperature of this year is 2º lower than 1817 This arises from the circumstance of the first five months being unusually cold: the heat commenced to wards the end of June, but then it continued uniform until the end of August, and in December it was se verely cold.

THE COLUMN

PROM THE ALBANY ARGUS.

Ma. Buel.-It may be acceptable to many of your readers who are in the habit of collecting and preserving medicinal plants, or 'roots and herbs' for family use, and for sale, to be advised of the most proper manner and time of selecting and collecting them. So many of them enter the shops of the druggists, and become a necessary and valuable prescription under the direction of the physicians, it is of importance that every species should have its similar quality in a similar degree. Many a vegetable medicine has lost its reputation in the hands of scientific physicians, from repeated disappointments in its efficacy, because therefore, selected the following directions:

Vegetables should be collected in places where they are indigenous, and in soils and situations where they naturally flourish with the greatest luxuriance the dissipation of volatile parts; and during the time occur not the passage, by which means the delivery of keeping them, the access of insects or impurities is so in accomplished; he observes, however, that

spring of the second year: in the autumn of the first, their virtue is not greatly inferior, but there is no danger of gathering the degenerate root, hastening to

Perennial roots are the best in the spring, just before

Juley roots, if their medicinal portion be not volatile, may be rapidly dried by a heat from 90 to 120 degrees—but if aromatic, in a current of cold dry air, and exposed to the sun. Thick roots should be sliced and hung on strings.

Herbs and leaves in general, acquire activity from their age-but mucilaginons ones become woody.-Particular attention should be bestowed on collecting the fætid hellebore or bear's foot, and fox glove; the former, has the leaves of the first and second year at the same time, distinguised by their colour and their aerimony; it is neecssary, therefore, to select one kind only, and the older are the more active.—The fox glove is a biennial, and the leaves previous to the The mean temperature of our climate at Baltimore flowering of the second year, more active than those as noted by a very accurate observer, was in the year of the first; they should, if possible, be distinguished. Aromatic leaves should be collected after the flower buds are formed: Annuals, about the time of flowering-biennials, before the sap mounts; and perennials before they flower: they should be dried rapidly, and if succulent, by artificial heat.

Resinous barks are best collected in spring; gummy ones in autumn; and of the former, the heaviest

should be preferred.

Flowers, as well as herbs, should be collected in dry weather. Seeds and fruits should be collected when ripe, but before they would fall spontaneously. Vegetable, generally should be dried by artificial heat, though not to such a degree as most slightly to destroy their colour. Every vegetable should be kept dry : Herbs and leaves when brittle or friable, appear to have lost their odour, but regain it on being kept in a close box. Oily seeds and fruits should be kept in a dry cool place, but not beyond the season of again collecting them. Those vegetable substances are best preserved in every form which have grown and been gathered in a dry season.

# Extracts from a Compendious Dictionary of the Veterinary Art.

[Continued from No. 33 p. 254.

Calving. At the end of nine lunar months, the period of the eow's gestation is complete; and about a fortnight or three weeks before this time, what is termed Springing takes place. The space then between the shape and the udder becomes redder than usual; the udder enlarges, and the ligaments or joinings of the bones termed the Couples, on each side the rump, are by degrees giving way, till a yielding or something like a separation of them can be felt When these appearances show themselves, the cow is at her full time, and should be narrowly watched, as she hourly may be expected to calve. Immediitely before calving, the animal appears to be uneasy, the tail is elevated, she shifts about from place to place, and is frequently lying down and getting up again; the labour pains then come on, and by the contraction of the womb, the contents are gradually pushed forward. At first the membranes appear bevond the shape like a large bladder of water; this soon bursts, and after the water is discharged, the head and fore-feet of the ealf are protruded beyond he shape; the body next appears, and the delivery is soon complete. In a little time afterwards some trifling pains take place, which separate the after-birth or cleansings, and then the process is finished. Such is the usual course of what may be termed a natural calving, and the time of it seldom exceeds two hours to the whole; sometimes, however, it is protracted to five or six, or even longer. When the water bladit was gathered out of its proper season. I have, der breaks early in calving, and before the mouth of the womb is sufficiently expanded, the process is often slow, and it is a considerable time before an part of the ealf makes its appearance. In such east Mr. Skerrett thinks it necessary to assist nature by The decayed part should be separated, and on drying introducing the arm into the uterus, and laying hold the sound portion, care should be taken to preven of the forcelegs, to bring them gradually, as the pains

symptoms of calving appear; which proceeds from an erroneous opinion, that the process will thereby he facilitated; he has known many instances of its liaving proved fatal. It hoppens more frequently with the cow than any other quadruped, that the east, instead of presenting in the usual way, that is, with the head and fore-feet, is so situated in the uterus, that delivery is rendered difficult and sometimes impracticable, without assistance. In such eases, it becomes necessary to introduce the hand, and change the position of the cali. When, for ex ample, the head presents without the fore-legs, which are bent under the breast; it cannot in this position be drawn away without endangering the animal's life. In this case, the calf is to be gently pushed back into the uterus, so as to admit of the forelegs being drawn gradually and carefully out into the vagina. It may be necessary then, particularly when the calf is unusually large, or when the passage of the cow is comparatively small, as is sometimes the case the first time of calving; to place cord-round the feet and under-jaw, and whenever the pains occur, to assist nature in gradually extracting the calf. On some occasions, considerable force has been found necessary for this purpose, and no ill some cotton twist, some hats, bonts, or shoes neen joung necessary to this purpose, and to London, or Liverpool, and they will soon be consequence has ensued from it; but it should be to London, or Liverpool, and they will soon be recollected, that nature is never to be interfered with informed how trade is there suffered to regulate in the process of delivery, unless it is first clearly itself. They will also learn, that the m xim of ascertained that assistance is absolutely necessary, buying wherever the article can ne had cheap-The preternatural positions of the ealf, which at times occur, are various, and have been well delest, is not adopted in the country from which i of the Cour, &c.

CALVES, Diseases of. The principal diseases of is often a salutary evac ation; but when it becomes namely, our population must be supported, and violent, or continues longer than a day or two, some we may as well support it for working, as to means must be employed for checking it. The most going idic. Indeed the basis on which all commade with wheat-flour or arrow-root, with two or inercial regulations ought to be established. three drams of prepared chalk twice or three times that those regulations shall have the greates tincture of opium, a dram of ginger, and four For as this is the real source of national wealth ounces of peppermint water. In obstinate cases two whatever promotes it appet to be appearant. the dose of fincture of opium increased. Glanber's whatever has a tendency to injure it, ought to the session of the autumn of 1822. salt and easter oil are the best remedies for costiveness; the dose of each is from six to eight ounces, if given separately ; if joined, about four of each.

( To be Continued. ) BEST KING OF CAPPE

FOR THE AMERICAN FARMER.

# DOMESTIC INDUSTRY,....No. VIII.

MIR SKINNER, - We are frequently told, that commerce will regulate itself. It is very true; and so will the yellow fever, and the plague, regulate themselves. As soon as these scourgeof the human family have destroyed all that come within their sphere of influence, they will cease to destroy. In like manner when a ruin ous commerce has produced bankruptey, as far as its influence has extended, it will cease also. But this is like the physician curing all ills, by stopping motion; or rather, like submitting the cure of disease to death himself, instead of ap-lest production and best quality of winter wheat, plying a judicious remedy, before it has injured from not less than two acres in one piece. the constitution. Woful experience has proved that merchants, as well as gamblers, will pur-greatest production, from the same number of sue a losing trade, in hopes of a change of for-lacres. tune, until their all is gone. Nor will they even stop then, if they can avoid it; but follow est production and best quality of milian corn. on in the same course till their friends and con-from the same number of acres .- Upon high nexions are involved in one common rain. But land. if commerce will regulate itself, why are such sums of money lavished for that purpose? Let greatest production from the same number o any one who can, add up the millions of dollars, facres. that have been expended from the year 1790 to 5th. A premium of 50 dollars for the best the present time, on our navy, on ambassadors, method of recovering worn out lands, to a more proper inscriptions.

if appears absolutely necessary. He strongly repro- dempotentiaries, envoys, outfits, consuls, and hearty—vituo the power of larmers in gene-bates the practice of driving the animal about when prents; and to these add the expense of the call by indicions culture and the call by nerce, and he will perceive that it has been the most expensive of all our regulations. Ha me-tenth of these sums been appropriated to the encouragement of domestic industry, both our home and foreign trade would, at this time have been in a very different condition. For wign markets would have been less glutted with the produce of our soil, our warehouses, anstores, emptier of foreign manufactures; our country pos-essed of more specie and less debt ve would now have had a great many more persons working, and far fower, wanting.

The truth however is, that as long as any om paritime nation undertakes to regulate its com nerce, every other nation, regardful of its in terest, must do the same. To be convinced of this, let some of our advocates for unlimite trade, send a few bales of our manufactures to London, or Liverpool, and they will soon be scribed by Mr. Skerret in his Treatise on the Parturition emanated: that on the contrary, the rule there is :- You shall buy nothing abroad for home consumption, that can be made at home .- And calves are diarrhoo or securing, and costiveness, consumption, that can be made at home. And The former should not be hastily interfered with; it they will give you a very good reason for it. tf this fail, add to the chalk two drams of possible tendency to promote do estic industry whatever promotes it, aught to be encourage :: be restrained.

We have unfortunately subverted this rule and made every thing subservient to commerce The consequence is, that, like a spoiled child, i has not only is jured itself, but also, agriculture, the parent by which it was included. It is now to be hoped that the parent has learned wisdom more salutary restraints upon its headstrong offspring.

Your's, &c. COGITATIVUS.

FOR THE AMERICAN FARMER.

Premiums offered by the Agricultural Society of Albemarle, at their Meeting, Nov. 1, 1819.

1st. A premium of 30 dollars for the great

2d. A premium of 20 dollars for the next

3d. A premium of 50 dollars for the great-

4th. A premium of 20 dollars for the next

agents; and to these add the expense of the cal, by judicious culture and the application of last war: for all these were to regulate com- common and cheap materials as manure, founded on experiment, made upon at least two acres.

6th. A premium of 40 dollars for the second hest method.

The society are persuaded that every system of Husbandry must necessarily, if judicions, conform to the circumstances of the country in which it is adopted. These circumand a are, its climate, its soil, the kind of lamer employed, its products, the reward far such products, &c. A grazing country for exthe cheapest and most productive method of rowing and fattening stock, the improvement of their breed, &c. which in this section of ountry, when the valuable grain of wheat and clian corn constitute the staple productions, uch a system of cultivation as will enlarge wir products, ought to claim the first conside-In in ately, and indeed indissolubly ration. onnected with this interesting subject, is the reclamation of our exhausted fields; the result of the deteriorating system of our ancestors, in l of which the present generation is far from ring guiltless.

It is therefore to the encouragement of these objects that the society first proposed to apply ts funds: and as these shall encrease it will be enabled to widen the sphere of its patronage till it embraces the whole circle of Agriculture. Regulations concerning the foregoing premiums.

The premiums as above proposed shall be awarded, on the crops of the year 1821. Those or wheat in the autumnal session of that year, and those for indian corn in the ensuing spring session Those for the reclamation of land, in

Persons desirous of becoming candidates for premiu as on crops, must give notice thereof by letter, (post paid) or by personal application to the Secretary, on or before the 1st of Seprember, 1821, as it regards wheat, and on or before the 1st of April, 1822, as it regards corn; stating in writing their names, residence, from experience, and will in future lay some description of the crop raised, and the object fiered for premium. Also the nature and quaty of the soil on which the crop has been raisd, the produce, the manner of cultivation, the quantity and kind of manure (if any) used the receding year. The quantity and kind of maare used the year of its production, the quanity and kind of seed sown, or planted and the time and manner of preparing it, the time and manner of sowing or planting, and of barvesting.

It is understood that the several kinds of grain must be raised on old improved land. The products to be ascertained by the certificate of two respectable and disinterested witnesses. Candidates for premiums, for the reclamation of worn out land, must state also in writing, the nature and quality of the soil, the degree of exhaustion, the kind and quantity of manure (if any applied) and the result of such ipplication, on or before the 1st of Sep. 1822.

None but the members of the society shall be and dates for premiums-

All premiums shall be paid in silver plate with

But the society reserves to resert the right of withholding the proposed premums, in any case where there appears no peculiar merit.

P. MINOR, Sec'ry.

Nov. 1, 1819.

FOR THE AMERICAN FARMER. RUTA BAGA-CULTURE.

Mr. Skinner,

Dear Sir,-I would thank you by informing the public through your truly valuable pa-Ruta Baga or Swedish turnip, which exceed in size, solidity, &c. any I have seen in this country or Europe; leaves and bulb averaged over 12 pounds each: these turnips, were grown by Mr Stephen Biddle, of Dorchester county. Eastern Shore of Maryland, and notwithstanding the dryness of the season, I understand Mr. B. has a large good crop, which will amply compensate him (for any trouble he might hav had,) by the increased quantity and quality of his butter, and the rapid improvement of his cows and hogs fed on them.

From the very general and profitable use of the Ruta Baga in Europe, I fear our America firmers pay too little attention to the growth of this valuable vegetable. To speak of Mr. Bindle's abilities as a practical farmer, would be superfluous, as he is well known to many of ouagriculturalists; would to God we had one thousand such men in the state of Maryland. then indeed, our sister states would not bear away all the agricultural laurels.

I am with respect,

JOSEPH P. CASEY.

Baltimore, Nov. 15, 1819.

Note by the Editor of the American Farmer.

mon drought, must be attributed to extraordinary care and attention, and goes to corroborate his char acter as a skilful and judicious cultivator of the soil A few turnips from the same farm, in Dorcheste county, have been sent to the Editor's office, and far excel in size, any he has before seen.-They measure 2 feet round and we are assured, were not the largest that were gathered.

# Occasional Extracts.

MR. SKINNER, - Whilst I was in Ohio I had the happiness to see the Steubenville cloth manufactory, and to be known to Mr. Dickinson of that place, who is part-owner of the manu factory, and who owns a flack of seven hundred of the most beautiful merino sheep in the world, The manufactory is great and I think splendid I saw fine cloth weaving and afterwards saw dressing, made from the wool of the sheep which I had seen. I engaged a few yards of it, brough it home, have a coat now making for myself and for my sun and daughter, who will call on you shortly, on their way to Cecil. I send you 2 1-8 yards of the same cloth, which I ask yo. to accept, as proof that you were not forgotte by me, when the mountains separated us. 1 however make a condition, that unless you will be proud to show on your oack such a sample of home manufacture, you are not at liberty to keep it. My belief is, that if ever I saw as good ruality.

ported, I certainly never saw any superior, The Steubenville manufactory is in full operation, making cloths of various prices. I bought some for a great cost at four dollars and some cents the yard, which I think is better and more wantiful than imported cloth, which is sold Proceedings of the Agricultural Society of Atour shops at 6 or 7 dollars the yard.

The glass manufactory of Pittsburgh which I visited, furnishes glass superior to any I have ever seen imported from England, and assored | pemarle, Virginia. ly at less price. The fine cotting, polishing per, that there is at my store, some excellent and engraving, surpass in execution all I have ever seen. My good sir, are these things true, and do we purchase imported cloth and glass. and a hundred other things imported, which we could have better made at home? These things ought not to be su-it is time we assume the attitude of a free independent nation—we send to foreigners almost our hearts' blood to pay for things we can, and do make better at homeur surplus products they want but little of and care less, then why do we not create a T. M. RANDOLPH, T. G. WATKINS market at home for the surpluss bread, by en-JAMES BARBOUR, W. D. MERRIWETHER: couraging the manufactories of our own country, and, in return, their labours will eat our bread.

> MR. SKINNER, -If any part of your valuable aper should be unoccupied by more important natter, it will be gratifying to me if you will nsert the following queries, provided it should elicit answers from the proper source.

1st. As the mania for the culture of Ruta Baga lick spirit and public services. revails so generally, will it not be a profitless crop to the farmer, unless it be found convenient to expend it on the farm? And if so, what would be the most lucrative use that could be No. 2, Hanover-Street, made of it by him who abandons the culture of grain for Ruta Baga ? And why has Mr. Cobbett, with all his explicitness on other points, not informed us what quantity of Ruta Baga, and the Mr. Biddle's success, notwithstanding the uncom-liength of time required, without the assistance of grain, to render a bullock of any given weight fit fur the botcher?

> and. With all the valuable information con tained in Mr. M'Culloch's letter, on one of the grand desiderata in American agriculture, why own in the fall to bring in a crop of clover afterwards in place of oats or barley? And wha quantity of seed is required?

> your promise, to give us Mr. Cobbett's method of earth burning ?

> I can assure you, that in submitting thesqueries, I am actuated by no other motive than braining accurate information on the points referred tu.

A SUBSCRIBER.

with the attention which has been bestowed on this natter in the American Farmer-at the same time nvites them to call for the discussion of any agricularai question or system, which they may think is not well understood, yet sufficiently important in its nature to deserve investigation. - The Editor may here mention as a proof of the zeal and expence with which his undertaking is prosecuted, that the last five vonames purchased by him to aid him in his labours, cost him \$ 00 -abounding in botanical drawings

gravings of farm houses and implements of all sorts VII that he asks in return is, to be, gaid with punc-

# THE FARMER.

BALTIMORE, FRIDAY, NOVEMBER 19, 1819.

bemarle, Virginia.

In Number 33, page 202, we published the BULES AND REGULATIONS OF the AGRICULTURAL POCIETY OF AL-

At that time we did not know the date of it's organization, which was the 7th of October, 1817 .-Nor had we then been faraished with the following lists of officers, elected October, 1819, to serve one

JAMES MADISON, President. TH. M. RANDOLPH, Vice Presidents JOHN COLES, Treasurer, PETER MINOR. Secretary. TH. W. MAURAY, Assistant Secretary. Corresponding Committee.

PETER MINOR,

The Society, has done us the honour of making the AMERICAN FARMER its organ of publication -As we have been politely informed by the following extract of a letter from Mr Minor, the Secretary-In recording this extract it would be affectation, not to say ingratifude, were we not to acknowledge, that we feel highly gratified, that our humble toils should have already attracted the favourable notice and patronage of citizens distinguished abke by their pub-

Extract of a letter from Peter Minor, Exq. Secry to the Agricultural Society of Albemark, Va. to J S. Skinner, Editor of the American Farmer. Bultimore, "The society came to the resolution of making the American Farmer the medium of communicating its transactions to the public. In consequence of this resolution, I now forward you an extract from the latest proceedings, with a request, that they may be published. The society have on file, some interesting memoirs, which will also be forwarded as soon as the corresponding committee make the sclees tion and the copies can be made out."

### Present Prices of Country Produce in this Market.

Actual sales of White and Red Wheat—On the 16th has he not given us the best mode of propagat, inst. from Talbot, White at \$1 25-Red, \$1 123-17th, ing orchard grass? And can it be successfully at \$111-18th, \$1 10-Present Quotation, for Red Wheat, \$1 10 to \$1 12-Corn, 60 ets.-Rye, 60 ets.-Oats, 45 to 50 cts .- Flour, from the waggons, \$5 75 to \$5 87 - Whiskey, 38 to 40 cts.—Corn Meal, in the Market, \$2 per 112 pounds—Retail, 12 pounds for 25. Srd. Have you, Mr. Skinner, complied with ets.—Chopped Rye, \$2 per bushel—Hay, \$16 a \$18 per ton—Straw, \$10 a \$1.2—Tonacco, four hides sold the present week, for \$8 and \$10—Do. 4 hides at \$9 a \$11— Do. 9 hhds. at \$11 and 13, all from Calvert county .--The eight hogsheads quoted in our last, as having been sold by Mr. L. Wilson, from Calvert county, for \$8 a \$16, should have been \$8 a \$1.50—Tar, \$3 per barrel Turpentine, 52-Pitch, 52 Resin, \$2-Spirits Turpentine, 45 cts per gatton—Cotton, Upland, 17 a 20 cts. -Beans, (white) \$1 20 pr. bush -- Pcas. (black; eye,) 80 \*The Editor hopes his subscribers are satisfied Flaxseed, \$150 pr. bush,--Pork, \$13 a \$15 pr. barrel.

> ADVERTISEMENTS, which are, in their nan ture and objects suited to a paper of this sort, such as, the sales of land, seed, live stock, implements of husbandry, new inventions, &c. &c., will be inserted once. only, at the rate of at per square, to be raid in advance. The very extensive circulation of this raper among landed men, throughout the United Sales, makes it an eligible medium for giving such public notices and one publication is as good as forty, unless: in cases where the law prescribes a greater number of

# PRICES CURRENT

### AT BALTIMORE:

Carefully Revised and Corrector			
ARTICLES.	PER.	RETAIL E	RICES
BEEF, Northern mess	bb <b>i</b> .	17	- 1
No 1		15 13 50	- 1
No 2	ľъ.	16	
Bacon,	10.	18	20
Butter, Ferkin Coffee, first quality,		93	į.
second do		27	28
Cotton,	1 1	27	
Twist, No. 5,	1 1	45	E 0
No. 6 a 10,	1 1	46 53	50 80
No. 11 a 20, -	1 1	80	1 20
No. 20 a 30,	1 1	33	
Chocolate, No. 1, No. 2,	1 !	28	
No. 3,	1 1	25	
Candles, mould,	box	20	2.2
dipt,		15	19
spermaceti,	115	45 s	carce
Cheese, American,	lb.	60	65
Feathers,	qt).	3 50	001
Fish, cod. dry herrings, Susquehannah,	bbl.		retail
mackarel, No. 1 a 3	132.	9	12
shad, trimmed,	1	7 75	7 87
Flour, superfine, -	l	6 50	7
fine,	bbl.	5 50	6
middlings,		4 50	5 4 25
rye,	0001	none.	4 25
Flaxseed, rough,	hush	1	
cleaned,	lb.	do	
Flax, Hides, dryed,		12	15
Hogs lard.	1	12	13
Leather, soal, -	1	25	30
Molasses, Havana,	gal.	62 1-2	75
New Orleans, -		75	
sugar house,		1 50	
Oil, spermaceti,	gal. bbl.	18 a	20
PORK, mess or 1st quality, -	1001.	16 α	17
	1	14 a	15
earge 3d do Plaster,	ten	5	
ground	bbl.		
Rice	lb.	6	
Spirits, Brandy, French, 4th pro-	otigal.	1 25	3 1 50
peach, 4th pro-	01	75	1 30
apple, 1st pro Gin. Holland, 1st pro		1 50	
Gin, Holland, 1st pro do 4th pro			1
do. N. England	1	50	
Rum, Jamaica		1 50	
American, 1st pro		75	
Whiskey, 1st pro		18	
Soap, American, white,	lb.	9	
do. brown, -		19	1
Sugars, Havana, white, brown,	- 1	15 50	16
leaf,	ŀ	2.5	
lump,	lb.	20	
Salt, St. Ubes,	bu		
Liverpool, ground,	١.,	78	
Shot, all sizes,	lb.	1. 7	1
TOBACCO, Virginia fat, - do. middlings,	C.W.	6 5	o <sup>)</sup>
do. middings, Rappahannock,	- 1	5	5 5
Kentucky, -	Ì	6 5	
small twist, manufactured	, lb.	2.	
pound do	-		0, 7
TEAS, Bohea,	١.,		3∖ 5 ~ 10
Souchong,	· lb.	7	
Hyson Skin	.	1 2	
Young Hyson,	-		5,
Imperial,	.		o
unwashed, -		4	0
crossed, clean, -	-	6	5
unwashed, -			5
common constry, clean,			7
unwasi	ie.		(5) (5)
skinner's,	- +	7	**

#### FROM BOARDLEY'S HUSBANDRY.

I. A MESS, according to Dr. Johnson.

Beef 1 lb, potatoes 2lb, Scotch barley 1b, onions 1-3lb, Carefully Revised and Corrected every Thursday. perper and satt. Bacon 3 ounces. Cost 10 cents. This, three men; better than the common messes of fat bacon and cabbage, with which bread and beer are required. If one such man eats a pound of bacon at nine pence sterling for his dianer and supper, that article alone is equal to what might support three are or 3 cents, 3 mills.

#### H. MESS. Dr. Johnson.

The head of a sheep, barley 11b, potatoes 31b, onions 11b, a meal, amounts to three cents a day. pepper and salt, cabbage, turnips, carrots. Water 11 pints. Cost 16 cents Produce 6 quarts.

This was preferred to the other, for richness of flavor One family of 5 persons and taste; owing to the bones in the head, which were A nation of 5 millione of people . broken small before they were put in the stewpan. It The cent thus saved by the good heuse-wife, on makes a most comfortable dinner for four men. Cost every plentiful meal of the wholesomest food, would 40 mills or 4.0 cents a meal.

#### III. MESS. Dr. Johnson.

Bacon 2lb, barley 2lb, onions, pepper and salt. Cost 9 cents. A dinner for three men, needing no bread.

### IV. MESS. Dr. Johnson.

An ox cheek, barley 1 lb, potatoes 6lb, pepper and salt, onions 1 lb. Cabbage, turnips, carrots. Water 22 pints. Cost 30 cents. Produce 3 gallons. A meal 18.7 mills or 1 e. 8 7-10m.

This costs 30 cents, without bacon; and gives three gallons of very excellent pottage, for 8 men at dinner and supper (perhaps even for 10 men). It was rich, and better than my other pottages. Ox cheek seems to have the preference to the coarse pieces of beef commonly chosen. In all the above cookery, says Mr. Johnson, a rery close stew-pan was used, which emitted scarcely any evaporation: a material eircumstance. He adds: These dishes are not meant to be continual; but to be three or four days in the week.

### V. MESS. Dr. Johnson.

A shin of beef, barley 1 lb, onions 1 lb, potatoes 6lb Cabbage, carrets, turnips, salt and pepper. Water 11 Let us go upon a large scale, and take the whole quarts. Cost 28 cents. Produce three gallons Din-United States into the calculation. I will suppose there ner for 7 men. Cost 40 mills, or 4.0 cents a man.

### VI. MESS. Dr. Johnson.

Ox's head 4, barley 11h, onions 11h, potatoes 3lb. Cabbage, carrots, turnips. Salt and pepper. Water 55 ql-Produce 6 quarts. Cost 16 cents. A rich and high flavoured pottage In the last two above trials, the doctor omitted the bacon; because the flavour of it, in some other instances, was too predominant; and it is a needless expense. On the whole of his trials, he found that ox cheek or shin beef are preferable to any pieces that are without bones. See Prison Diet.

# Pompion Diet. In. Lettsom.

The sort common at the tables of the people of Massachusetts, are distinguished by the name of "the winter, or long nec squash." They weigh 10 to 15lb. This squash is boiled about half an hour: then mashed up with flour or dough. They make " bread, puddings, and most excellent pancakes; by mixing certain proportions of this vegetable, previously boiled, with flour. But most commonly, they are caten stewed, the skin being first taken off, and the entrails taken out. It is almost a standing dish at their tables; even amongs the most opulent."

### General Cautions in Country Cookery.

Soups are never to be filled up or have even a drop of water, hot nor cold, added: and are never to boil briskly. They are to be long, long over the fire, simmering rather than boiling. And all soups hav simmering rather than boiling. ing roots or herbs, are to have the meat laid on the bottom of the pan, with a good lump of butter. The herbs and roots being cut small are laid on the meat. It is then covered close and set on a very slow fire. This draws out all the virtue of the roots and herbs, and turns out a good grary, with a fine flavour, from what it would be if the water was put in at first. When the gravy is almost dried up, then fill the pan with water: and when it begins to boil, take off the fat. - Never boil fish; but only simmer, till ecough -Beef quick boiled, is thereby hardened: simmer or slow boil it, in not too

much water .-- Veal and poultry are to be dusted with flour, and put into the kettle in cold water. Cover and boil slow as possible, skimming the water clean. It is the worst of faults, to boil any meat fast.—In baking pies, a quick oven well closed, prevents falling of the

alone is equal to what might suppport three men; in dependent of bread and beer. Cost, 33 mills a man, rience therein. However lightly may be thought of a cent on a single meal of victuals, when the sum of a year's meals is calculated, for a person, a family, and a nation, it becomes striking and important. A cent for

> Dolls: One person at 3 cents a day, saves in the year 55,000,000

> be sufficient for maintaining the most desperate war by the freemen of America, in defence of their country, against the willes and the violences of the great enlightened world !

> > FROM THE BOSTON YANKEE.

#### RUM DRINKING.

I like old Dr. Franklin for this reason-he always spoke common sense, avoided vain flourishes of rhetoric, and addressed the understanding in preference to the passions. His calculations were curious, and generally spoke the truth. Truth in a plain dress, which becomes her best, does more towards the reformation of society, than all the eloquence that man is capable of generating. I have read many cloquent disserta-tions upon intemperance; but it appears to me, that if a thinking man will set himself down, count the cost, and look into the consequences of indulging in this evil habit, it will go feither towards effecting a reformation than all the eloquent addresses over penned upon the subject

are three millions of jeo, le in the country, who consume on an average, half ap int of ardent spirits per day -(this calculation is surely within bounds)-which will cost the consumer at least 10 cents; I mean upon Let us admit this, and now for the the average. calculation-

\$300,000

9,000,000

3,000,000 at 10 cents per day each, is Which will amount, in one month of

80 days, to Multiply this sum by 12, and you will

find that the population of this country expend in one year, for ardent spirits, the enormous sum of

spirits, the enormous sum of \$108,000,000

Yes—one hundred and eight millions of dollars for ardent spirits !- This truth is awful! The money expended for this baneful purpose would support all the poor houses in the country, and maintain the government besides, after deducting out the revenue arisg from the importation of ardent spirits.

The Editor of the American Farmer solicits information as to the date of the establishment of all the Agricultural Societies in the Union, their articles of constitution, proceedings, &c. &c. for publication in this paper.

PRINTED EVERY FRIDAY AT \$4 PER ANN.

# FOR JOHN S SKINNER, EDITOR,

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# AMERICAN FARMER.

# rural economy, internal improvements, news, prices currett.

" O fortunatos nimiam sua si bona norint " Agricolas." . . . . VIRG.

Vol. I.

# BALTIMORE, FRIDAY, NOVEMBER 26, 1819.

Num. 35.

## AGRICULTURAL.

ON THE

# Cultivation of Fiorin Grass.

By Dr. RICHARDSON, D. D. Clonfeckle, Moy, Ireland. EXTRACTED FROM THE MEMO RS OF THE WORK-INGTON AGRICULTURAL SOCIETY.

[Continued from No. 34-p. 263.]

Your CUMBERLAND mountains are not of this description being mostly dry, and stony, and the soil shallow; they are less favourably circumstanced than those which are clothed with a deep skin of peat; still however there are many parts of them where fiorin would thrive well, and although these may bear a small portion to the whole, yet still their extent will be found sufficient, amply, to supply the intire mountain district with hay, and to enable the inhabitants to apply their rich meadows to tillage.

I shall point out the portions of these mountains which I conceive suited to fiorin culture, rejoicing at an oppartunity of recalling to my memory, and retracing, these delightful scenes, through which you gave me such an enchanting tour; and where I spent so many happy days among the hospitable inhabitants of the shores of WINDERMERE, and its beautiful island.

The first stile of ground commences with the gorges of the mountains, near which a rill always rises, and we agreed would amply suffice for the purposes of irrigation, and fertilize the valley on both its sides; narrow indeed at first, but always widening, and from its length comprehending a very considerable tract.

Much peat, and moor, was scattered over the narrow declivities, so that the two grand agents for stimulating fiorin luxuriance, are abundant, ashes, and running water

The sole difficulty, and expense will be found in protecting this long, narrow meadow, from the depredations of mountain cattle, but here local circumstances come in aid, and render fencing much less formidable than in other places.

The masses of flat stones (admirably fitted to form dry walls) the Debries of the Schistose rocks, bursting through the precipitous faces of the mountains above, furnish the best of materials, immediately at hand, and will reduce the expense of inclosure to a

I proceed to another stile of improvement, of which I think these beautiful FELLS are capable, and which we frequently discussed upon the spot.

Nature is here our guide, pointing out to us ineligi-ble characters, what these bleak summits are capable of priducing

I she wed you in many places, where the steep abated, between the precipice, and the vertex, that the surface was covered with fiorin panicles, in apparent crops. health, and even luxuriance.

It is true we did not ascend the mountain, to ex amine the soil; What then? we see that our favourite the ves in it, and what ever the soil may be, we know how to in prove it.

If peaty (as is probably the case) we burn it in that airy somation and with ease procure ashes to any

If marchy the declivity facilitates drainage;-If dry it is likely we can have the aid of irrigation by availing ourselves of the mountain rills swelled by every heavy shower

I am aware this is mere speculation. I must there the proprietors, to rush into practice at once, upon ur shall assist them.

Let mem select a place where spontaneous fin in abundant, and inclose a rood by a dry wall; bust a the contiguous schistus

To the indident, I say the business is done, the ex ternal animal enemy being excluded, and the fior left to contend for the possession only with vegetable rivals, will have pretty well overpowered them by October, when my indolent pupil has only to take up his seythe, and mow a good crop of hay.

I shall however suppose him not quite so bad, as to sit entirely with his arms across. I shall assume that he will give me some small help.

belp the fiorin a little in his way with his competitors; clearly, the prosperity, the wealth, the strength, the let him in that month, when all grasses show the r species by their panicles, root out all that interfere with his fiorin.

These I perceive are almost exclusively the Eurosurus Cristatus, and Festucelatior, grasses with coarse ligneous stalks, which standing longer, are better marked for extermination than any other.

By getting rid of these he will secure a much richer erop in October, and his meadow will soon become

Should his zeal exceed my expectations, and call forth more strenuous exertions, I have already pointed out the measures he is to pursue as the soil turns out, peaty, or marshy, or dry.

The experiment I propose is neither expensive, nor troublesome, the result will soon be ascertained: should it prove me to be a visionary; I have done no great mischief;-should my speculations upon the powers of fiorin succeed here, as they have done every where else, that they have had a fair trial; what a beautiful field do they open?

I hope your Cumberland friends, and Westmorland neighbours, will have spirit enough to make the experiment; - Nature has lavished her favours on this delightful portion of their country: she has left little for man to do, and she gives him a broad hint what that little is.

Strangers crowd to admire their romantic scenery to look down on their rich and verdant vallies; -by coup de theatre let them change the scene, and she the spectators their vallies covered by a yellow har vest, and the verdure of their meadows transferred to the summit of their Fells,

What a succession of extensive fields for improve ment did our tour open, as we proceeded from Cock ERMOUTH towards KESWICK, - extens ve Moor in the vale from the cataract above ULSWATER for a gre. length of road towards the hospitable mansion Rose Castle-between Rose Castle and Carlistr and before I had the pleasure of meeting you, a fl moist moory tract, running south from Bewness, un happily, (as I think) now consigning to farmacious

These Moors, barren at present, would soon, and cheaply, be converted into better meadow than any you now have, and supply the contiguous parts of COMBERLAND with the choicest bay, in quantities, to which you are not used.

I shall now begin to ceneralize, and to try bow the ntroduction of this new vegetable, is likely to affect be agriculture of your country.

This, when communicating with you, becomes a icklish subject; I know that agriculture has been one your favourite mistress; that your time and your attentions, have been long dedicated to her, that she for he moderate in my demands. I do not call upon had the command of your purse, and that you have reen indefatigable in your exertions for her impriveauthority, let them feel their way gradually; and I nent, and have spared no pains in setting her off to

others, as annable and interesting as she do. to auserf

But I ke many other passionate lovers, you are conmed by jealousy, every thing that appears presents, self in the drope of a rival.

The Army, the Navy Commerce, Manufactures; our Colonics, all employed to defrau your M stirs of the attentions you think due to her; all contributing to paralize her exertions; by engaging thinse that ought to be her votaries in , ther pursuits,

How often have I heard you in your paroxy m of jealousy; descant to open her merits, and prove her Let him then ascend the mountain, in June; and decided superiority over all these rivals; shewing defence, of the country were in her hands; and while there, our resources secure, as depending solely on ourselves.

I shall leave the defence of Agriculture on these various topics in much abler hands, and content myself with shewing that I am not a rival, but a most active and useful friend and associate.

In the first place, I do not interfere with your territory, for I do not ask a single acre that you ever were in possession of.

As little do I interfere with you in the article of manure; oever calling upon you for a single ounce, but this sul ject is of too much importance to be pass. d over by a simple negation.

How often have I heard you enlarge upon the infinite consequence of manure to the farmer? how did your numerous visitors, as well as myself, admire the mgenuity with which you preserved every particle of manure, produced by your immense stock? Nor is this idea new to you, for Mr. Douglas tells us in his Essay "the best, and most recent wraters on rural economy, Mr. Curwen, and Mr Brown, have particularly adverted to the subject of manure "

And Mr. Mure in the same transactions of the Kirkcudbright Society, says, "It should be a principal object to have the land as fertile as possible, which is not to be obtained without he greatest possible quantity of putrescent manure."

What then must Mr. Mure think on the introduction of fiorin culture, which without calling for a paricle of putrescent manure, gives over to the Agi culturist for his other purposes, every pound of the putrescent manure, which it must necessar by produce in such nomense quantities, requiring merchy peut, ushes and running water?

Let us try in your other agricultural practices wheher the introduction of fiorin will be found to mpade or assist you.

The most striking diff, rence I observed when with on between English and Irish agricultural practice, s med to consist in your great fondness for nouse ading whether by green crops, or dry food, whita prodigious stock did you maintain, and what quantis of dung did they produce.

Our hospitable friend, Mr Boyd of Merton-Hall, president of the Agricultural Society of the shire of igtown, boasted to us of the great stock he kept on very few eeres by green food;

You both complained of the feilure of your green crop early in September, and wished much for a resource in the period

Is it not at this moment that fior a comes forward in great luxuriance, and improving every moment, continues to afford an inexhaustable stock of the richest green food, until the end of April?

It is unnecessary to press this subject, the benefits to be derived from fiorin with a view to house feeding are so obvious.

he most known agriculturists strongn recomadvantage, anxious that she should appear to the eyes mend that measure, and how can they be so well enaby the introduction of a vegetable affording quantities mote ones. of food, green and dry, far greater than any other, and on much cheaper terms?

In the stall fiorm has not yet been tried, but there can be little doubt that a richer, and more succulent any other, must also have greater fattening powers.

I do not expect that any dry food, will bring on cattle so rapidly, as mangold wurzel, swedish turnips plough, and your agricultural field so much extended. and putatoes; but this winter having endless abunby lessening their allow nee of root food, and greatly with peaty moors. increasing their quantity or hay,

detail the advantages the state itself will derive from bie time already in action. a more extended introduction of horm culture, I fear that at length you and f must become actual rivals. In fact we are already so, for before I had the pleasure of your acquaintance, the regular deficiency of our grain crops and their inadequacy to maintain the population of the country, with the rumous effects fe t. and threatening to be increased by heavy importation; possed of, and to ascertain the luxuriance of the your meadows. had called u. both forward, and induced us separately to propose measures, by which present evils would be abated, and future calamity prevented.

You propose two remedies either of which (as you clearly demonstrate) would separately and distinctly, by what they say, must rouse the most general exeranswer the desired purpose, of bringing up the food tions. to the measure of the population without adopting the abominable resource of bringing down the population to the measure of the food

You prove that a practicable and even easily effect ed extension, of our present agricultural field, would much cattle, but restrained by the present scantiness soon pour in quantities of grain sufficient for our con- of their provender, they will now crowd their hills in sumption.

And you prove also, that by more general adoption the to in winter. of the improved system of agriculture, and attention completely to supply our present deficiences.

you were so good as to accept some copies) that if grain from Galloway, will be increased ten fold. adopted would effectually prevent the recurrence of fatal.

to meet the impending danger.

Alarming as this danger of famine, started for a time struction. by runnous importation may be; I am sanguine enshall be able not only to bring up our food to the level of our population, from which it is so for short dearth of provisions. at present, but also to have inexhaustible resources! creasing) what ever its rising demands may be

ment that the conviction of the great value of this city employed in growing wheat, grass has become general; that its enemies are converted into amateurs, and following your example are ral; with what exultation do I look down from the by their own exertions, and stimulate their tenants by making amends for former incredulity by present zeal, Marquis of Hertford's extensive meadow he indulged every reasonable encouragement; not indeed to the that proprietors are become sensible of the great addi- me in planting with florin, on the wet and peaty top of extent I heard you go; when from your chair, you sonal v lue their wild estates will receive by the in-thi mountain above Be fast. tro fuction of Forin culture; that a spirit is excited, exertions roused, and the agr culture force called into with rich crops of hay, must soon submit to the its crops fail, that you would repay them the whole action; Let us see what will be the result, beginning plough; for how can they sustain a contest with their expense they had incurred.

was so obvious to us both; will instantly be attacked; get, at an high rate while their mountain neigh-agricultural produce; from the quantities of manure gives the land-hold r acces to them

2 luxuriant meadow crop, giving hay in quantity and exertions. squality, far heyond any ever known in Cumberline

Your Cumherland meadows that hitherto have supplied you with hay at the average rate of one ton and a-half per acre (your own estimate published some over most parts of England? now of little value, and years ago) unable to contend in the market with your bay, abounding with saccharine matter, far more than peaty moors producing 6, 7, and 3 tons (rates for upon which I could not engage to produce luxuriant which far I pledge myself, and also better hav) must try some other crops, that is will be given up to the by nature to all soils, all climates, and all altitudes.

Let us retrace our tour through Scotland I shall not dance of fierin hay, I shall try experiments on mine draw comparisons, only say, sufficiently abounding

Here I shall make no assumptions, we found the When I proceed to generalize still further, and to spirit of improvement in vigour, and for a considera-

> to us the regular increase in the custom house books I Liverpool, of the grain imported from Galloway

fleeces growing on peat moors, similar to their own.

with sanguine expectations, which were far exceeded 11,500,000 acres.

gricultural improvement take a wider range

In the habits in Galloway of breeding, and feeding summer, secure of abundant fodder to bring their cat-

Hence an enormous increase of putrescent manure, to the practice of the most skilful in that branch, which will enable their ploughs to ascend their hills, tons of hay (for I shall not insist on your low average) without extending our present field, our tillage would and to encounter their peaty moors (enough for all of a good acre of fiorin from 6, to 8 ton, of better hay; be so much increased, and our crops so improved, as us) and I hope with the same spirit we found actually one acre therefore laid down with fiorin gives as much exerted by our hospitable friend, Mr. Boyd of Merton-I too bave laid before the public a plan (of which Hall-and now the Liverpool returns of imported acre, two others are consigned to the plough.

You and I too, will be affected by these measures; scarcities, without the necessity of flying to importative shall have additional motives for making the visits when broken up for grain crops, will be sufficient to tion, the effects of which are so heavily felt and proof we have mutually promised each other, we shall as we cover the deficiency occasioned by the failure of our given that if persisted in, the consequences may be pass, inspect the improvements we claim to have encrops in the worst, and most inclement season, and A plan by which even under the present system of the heathy moors on our road; we shall enjoy the so many acres must necessarily be added to our present poor laws, the effects of this unhappy code would be ciety of our Galloway friends, and we shall tempt agriculture field, I shall have performed my promise, so modified, that their pressure would be scarcely felt, them to revisit Clonfeckle and Workington Hall; where secured the nation from the danger of famine, superand whose operation would be so rapid, as instantly I was once so happy, where I formed so many valuable sede the necessity of importation, and brought up the acquaintances, and where we all received so much in-food to the level of the population.

ough to expect that by a spirited, and extensive intro-derived from the introduction of florin; she has been performed the remainder of my promise; and secured duction of Fiorin Grass, and that by its aid alone, we admitted in parhament to have ministered steadily; a resource for increasing population. and on a great scale, to the necessities of England in her

ready for the population (which we know to be in be, when the hay for i); blin, shan be surnished from convinced that they will derive great benefit from its the wet, and heathy sides, or Wick ow Mountains; and cultivation both as hay, and winter green food. That To establish this paradox, I shall assume for a mo-the extensive and rich meadows in the vicinity of the landed proprietors are well aware of the great addi-

Nor will this change of culture be local but gene-

Thine Rivals? they themselves paying 3, and 4 Gm-The numerous heathy moors we viewed in our ex- n as per acre rent; expending all their dung on their exertions so roused? Tensive tour, and whose aptitude for fiorin culture, meadows, and purchasing whatever more they can I shall not calculate. was so outload in soon; with instancy be attacted to me every point of their peripheries, where continuity bours, paying 5. or 6. shillings r nt, manuring with derived from the great additional stock of cattle which wives the land-hold r access to them ashes burned on the spot, or availing themselves of the luxuriance of fiorin will enable us to maintain. We shall see them immediat ly converted, first into their numerous rills for the purposes of irrigation; Eampi Phlecgrai, and when ashes are procured in suf-raise crops of hay treble the amount of what their De ent quantities, a green sole follows, and soon after rivals below can produce, after all their expense and fields for fiorin culture, and of course likely to have

I shall be told that although mountain and mours These are un Dediate, and precessary consequences, may abound in Ireland and Scotland the north of En-

And to carry it into the most extensive practice, as of the assumption I have made, let us try the more re- g and much of this last country, is deprived of these dvantages, and must seek their hay from grounds adapted to every other production.

Are there not Mashes, Heaths and Fens, scattered I have often boasted there was not an acre in Britain crons from this accommodating vegetable, adapted

I am aware there are extreme cases in which the xpense would exceed the profit; but it is not with these we would commence; wastes convertible into vatuable meadow by a thorough acquaintance with the ature and habits of form grass abound every where,

Even these at present must be left out of the question, the case is too urgent, to await for experiments How much did our friends exult when they stated upon powers, the alternative of famine, or runous importation is immediately before us, the remedy must be prompt, and the sources whence it is to be derived. tow promptly could they accept my challenge to imquestionable; I shall therefore fix upon a descrips nd committees over to Ireland to inspect my form tion of ground where capability of producing grain of crops, to bear testimony to the quantities of hay Hevery description will not be denied to me; I mean

These in England, and Wales, are stated to amount The report which these respectable gentlemen will to six million acres; by a triffe more than one half make (as they tell me) that they came to Clonfeckle the land consigned to agricultural pusposes, that is;

Through this whole memoir I have breathed hostiliy against these meadows; labouring to restore them The effect on their meadows will be the same in to tillage, and the rotation crops, so beneficial to the Cumberland, but local circumstances will make their agriculturist; I have endeavoured to supersede the necessity of giving up our best grounds to the production of hay, by finding that indispensable necessary for our domestic animals, on less valuable grounds, But in some parts of England, hay can be raised

from meadows alone; let us see how the introduction, or rather the substitution of fiorm, will operate here.

One acre of good common meadow produces two hay as three in the old way, of course for every such

This is too plain to require further illustration; it only remains to inquire how many acres of meadow couraged, we shall exult in the rapid diminution of shall it appear that by the introduction of fiorin so

And should the quantity transferred to tillage, ex-Ireland too will receive no small share of the benefit ceed what is necessary to cover deficiences, I have

I have assumed an high opinion of the great value of fior in grass, to be universally established. That agri-How much more copious must her contributions culturists (without carrying their views further) are tional value their estates will receive, from the general introduction of ficrin; -that they set the example promised your numerous tenantry present, that if they The vale below of the highest verdure, clothed now would lay down some of their land with fiorin, should

What effects are we reasonably to expect from the

I shall not calculate upon the general increase of

Nor upon the increased importation from Ireland, and Scotland; countries affording more excessive their agricultural produce increased on a greater scale than in England.

To be continued.

FOR THE AMERICAN FARMER.

# On reclaiming Salt-Marshes.

By S. SWARTWOUT, Esq. of New York. in the 32d. number of the American Farmer

New-York, Nov. 13, 1819.

DEAR SIR,

Your letter of the 30th ult. enclosing a comrequest. Nothing, I assure you, could afford me greater pleasure than to contribute my humthe course and termination of these trials may beautiful land. induce similar experiments, or operate as a avoid the expense and mortification attendant at immense expense, the enterprising and indeupon defeat. Our agricultural works afford us fatigable have pushed their improvements into nal, affording as it does constant and almost turer in this country, where lands are, as yet, in 36 months from the time of embanking, proto the enterprising part of the community; and large towns or a market, and where the expermit me here to tender you my thanks for the pense to be incurred would be comparatively with a strong iron toothed harrow, we had nearfrom the perusal of your interesting paper. .

ble and pasture grounds. This, fact although the enterprising and persevering. not generally known or admitted, is nevertheture when pursued with a view to profit, will ration of natural causes. never succeed remote from a market. And It is proper, however, to remark that the inhence the importance of converting, if possible, experienced who undertake improvements of every acre of water land on the sea-board, from this description, usually defeat their object, in Georgia to Maine, into tillable ground. And the first instance, by making the dykes too small. I am ready to venture the assertion, that no well As it is commonly considered an experiment, as through their ditches, and where, of course, during directed and well executed design of converting likely to fail as to succeed, the projector nature periods of drought similar to that of the late sum-

ever failed. Failures, no doubt, are numerous, the many disheartening failures, on a first the out they are the failures of ill judged and im- by the breaking in of the bank alone. properly executed designs, and not the fault of But I fear I am in danger of exhausting yo-Being answers to certain queries on that subject, the land itself. A badly constructed dyke, patience; and yet, I have a great deal to say in propounded by Dogr. Thompson Holmes, grounds not drained sufficiently deep. after reply, to the numerous questions propounded by being dyked, owing to a want of fall in the tides your intelligent correspondent. I shall answer jections out of the question, a want of judgment me, and with as much brevity as possible. or diligence in the cultivation of the soil, must produce disappointment But where the works munication from Doct. Holmes on the subject of have been made secure to exclude the water. '20 or 24 inches of fall could be commanded at any munication from Doct. Holmes on the subject of have been made secure to exclude the water. 'time; and where, during the prevalence of particular transfer of the sound of the prevalence of particular transfer of the sound of the subject of reclaiming marshes, was sent to me, a few days and the grounds within well drained and well clar winds which maintain an unusual and protracted ago, by our mutual friend Mr. Haines. Hav-cultivated, there is hardly a possibility of a fail ing been very much engaged for the last ten lure. For ordinary marsh contains all the nedays past, I could not sooner comply with your cessary ingredients of the most perfect soil -Its composition invariably, to a certain extent We consider it necessary to drain fall 3 feet, and almost wholly consists of the same materials He nite towards the laudable object, which you as the alluvials of the interior; a deposition of vehave manifested so much zeal and ability in pro- getable and animal matter, with a due proportion feet, and we have observed uniformly, that the moting, "the improvement of the agriculture of the sediment or wash of the river; and I can best and deepest drained tots, were the most proof our country." The interchange of opinions, ceive, it can differ from them in no essential par-ductive-where the tides fall no lower than 2 and the communication of practical results upon ticular, excepting that in the first instance they feet below the level of the marsh, wind-mills so important a subject as agriculture, cannot are saturated with salt water. If this be excluded might be made use of to great advantage, fail to produce the most beneficial effects to the and the previously mentioned process be purcountry at large. Individuals are constantly sued, there is not a doubt but what the sun and making changes and improvements. To know rains of heaven will speedily convert it into

When we reflect that in Holland, England, warning to the mure sanguine dispositions to France, Denouark and Italy, for ages past and a great deal of valuable information upon almost the very Ocean itself, and converted the grounds every subject connected with the art, but I know beneath into the most valuable portion of their none which treats upon the subject of embank-frespective dominions—there cannot exist a ing marshes. Besides, their publication being doubt upon the subject. The vast labour perperiodical and at distant periods of time, and formed and immense expense incurred in Eu-plougning, the marsnes in many places, consistent periodical and at distant periods of time, and formed and immense expense incurred in Eu-plougning, the marsnes in many places, consistent periodical and at distant periods of time, and formed and immense expense incurred in Eu-plougning, the marsnes in many places, consistent periodical and at distant periods of time, and formed and immense expense incurred in Eu-plougning, the marsnes in many places, consistent periodical and at distant periods of time, and formed and immense expense incurred in Eu-plougning, the marsnes in many places, consistent periodical and at distant periods of time, and formed and immense expense incurred in Eu-plougning. their circulation limitted, I consider your jour-rope could not, we know, he borne by the adven-4 to 20 feet, and yet this ground by ploughing, daily information, as an invaluable acquisition cheap and labour dear. But in the vicinity of duced from one to two-tons of timothy hay to information and pleasure, which I have derived small, there could not, I feel persuaded, be a more safe or productive improvement. I am happy to perceive that intelligent indi-true there exists, at present, many dreadful foreviduals of enterprise and wealth, are directing budings of the impossibility of converting those their attention to a subject of the greatest con-lossensive wastes, those desolate regions, into sequence to the welfare of the Atlantic states, wholesome districts and blooming fields, but the reclamation and cultivation upon the sea-they are idle; they are founded in ignorance or board of the most valuable portion of our do-lenvy, or have been created by partial defeats mains, and the immense tracts of marsh to be or illiberal conjectures. The contrary has been found all along the coast, and on our rivers, proven to the conviction of thousands, and thus sould not fail, when thoroughly recovered, to is the goodness and bounty of the Creator disproduce the richest and most inexhaustible ara-played, in rewarding the toils and solicitude of

The destruction of a dyke from the violence less true, and one of the greatest importance, of a tornado, is no more an argument against especially when taken in connexion with their the principle or practice of dyking, than the proximity to an eternally increasing market prostration of a dwelling or a field of grain by Of what consequence is it to the farmer in the the same tempest, is evidence of the particular interior, if he can raise 100 bushels of corn to displeasure of the Deity, or of the folly of the the acre, or 3 tons of the best timothy, if he can husbandman. It cannot be pretended that the procure for the one only to or 15 dollars, and works of art any more than the productions of for the other perhaps not ten dollars. Agricul-nature, are or can be, exempted from the ope-

on proper principles and firmly persisted in, has penditure upon so uncertain an object in

or other causes, and finally, the preceding ob-them in order, as far as my experience enables

First.- 'Have reclaimed marshes succeeded in the production of artificial grasses, where not more than 20 or 24 inches of fall could be commanded at any elevation of the tides, not more than half that fall can be had for several days in succession?

The first question I am unable to answer. and my impression is that 5 feet would be better than S .- Our grounds are drained 31 and 4

2nd. Have reclaimed marshes been made valuable for grass, whose surface consists almost entirely of a mass of fibrous roots to the depth of 8 or 9 inches: 'and if so, was the turf pared off and burnt, or was it permitted to undergo a gradual decomposition, after 'the natural grass was destroyed?'

3d. In grounds thus covered with turf, has the plough been used to prepare them for the reception of grass seeds; or has it been found sufficient to tear the surface with harrows, and then to sow the seed?

I shall couple my answers to both:-Our grounds consist of clay, blue mud, mellow ground and tough roots. - When we commenced ploughing, the marshes in many places, consistly as good grass, the same season. But we prefer the plough, for when the sod is once fairly broken, you may consider the land as in a direct road to permanent improvement .- These experiments were made upon the most inveterate salt-marsh.

4th. 'May it not be received as a tolerably correct standard, by which to ascertain the value of marsh soil, that the nearer it approaches to a pure, blue mould, or, in other words, the shallower the superficial stratum of roots, the better it is?"

We prize the blue mud very highly, and it is the general opinion, where it is found, that there the soil is the best. But our turf grounds (so called in contradistinction to the blue mud) after having been ploughed and cropped two seasons, have turned into earth, and became seautiful mould, resembling garden ground .- B had as fine wheat and rye as any in this county, this season, upon this description of land, and corn also. But the ground was well drained. The recovery of marshes, I conceive, de-

pends upon two achievements only, the exclusion of the floods and the deep draining of the land. Where these are effectually done the cultivation of the soil will naturally follow.

5th. 'In reclaimed marshes, whose situation does salt-marsh into fresh meadow, if conducted up-trally feels a reluctance to venturing a large exSed pies the bottom of their ditches in an undilu ed even soft upon their surface; and what are the com e, will grasses succeed?"

by the, will grasses succeed:

of f his question, I am unable positively to anand sufficient for the purpose they were intended?

there is not nor cannot be a rule to govern an er.

opening towards the salt water, so tight as not to must determine our lots vary in size from · admit some salt water?"

7th. 'What is the best plan of their construction?'

As our tracts of marsh are large, one containing 1000 and the other 500 acres, they require large sloices, as well as a number of them: we have 7, and all of the same dimensions. Being made with great care, they effectually ex clude the tides. The following we have found to be the best construction.—  $\Lambda'$  sill-piece 24 or 25 feet long, of pine or hembock, a foot square. is sunk, with its ends in the marsh to the depth required-into this two gate posts 9 feet long. are morticed, with a beam across at the height of 4 feet, so as to leave the race 4 feet cleartwo other upright pieces of the same dimensions as the gate posts, are also let into the sill friendly to all kinds of vegetation, can only be at 4 feet from the gate posts, and a cap-piece as heavy as the sill, surmounted on the top to bind the whole frame.-Long planks, 12 inch pitch pine are found to answer best, are now driven into the mud, (so as to be nailed against the cap) from the edge of the gate posts on either side, to the extremity of the upright-in order to make the work more secure, these are usually doubled .- The race way is now spiled with the same kind of plank, on each side of the sillpiece, and driven as low as a maul will force them-after which the floors, about 4 feet long on either side, are laid, and for the greater security, they too are spiled at the outer end .-Such a sluice, with a gate that fits well, will not leak a barrel in a tide-if chips or grass get between the jaws and the gate, they are removed Or, in other words, is it not better to obtain the mud, when the tide falls, but a common wicker grating, will effectually prevent accidents of this sort.

8th. 'Has it been observed, that when high tides prevail several days in a dry time, and when the excavations, so common upon the surface of many marshes, are laid dry by the evaporation of their water, that an nozing of salt water takes place through the deep fissures made by the sun in the mid or their bottoms, so as sometimes to cover them 2 or

· 3 inches deep, in the lowest parts?

I have no recollection of having observed any thing of the kind.

9th. Does not the mud upon the outside of air banks receive deep fissures, whilst their moisture is evaporating by the heat of a summer's sun?

Unquestionably -out where the dyke is large.

the effect will not be injurious.

1 rdl. 'Is it common or necessary to fill up these cracks with additional soft mud plastered over them, for are they permitted to fill up by the gr dual pul verization of the mud on the surface by a winter's

It is necessary, upon all occasions to keep the hank in order; if these openings endanger it in the least, they should unquestionably be repaired immediately.

11th. What length of time will be required, where the banks and struces are completely tight, to freshen and prepare very salt marsh, for grass seeds?

12th Will this process be accelerated by loosen ing the surface with a plough; and has this operation been tried?"

I must beg leave to refer to my reply to the third inquiry.

13th . At what distance apart are the interior drain ing ditches usually opened in marshes not boggy, or

mon dimensions af such ditches, esteemed effectual,

there is not nor cannot be a rule to govern 6th. Are there any sluices or trunks, with valves in this case. The judgment of the proprietor to 10 acres—care should always be taken whether the lot is small or large, that it be well drained, for unless it is well drained, nothing will grow well upon it; our great leading drains are 8 feet broad and 4 feet deep .- The latera ditches from 5 to 6 broad, and 3 deep, with only space enough at bottom to scour them advanta reously.

14th. Are not small superficial drains of an angular shape, like the ditches one foot wide and 7 or 5 inches de p, very serviceable in grass lands made upon marshes?"

They might be, I should suppose, where the and is perfectly freshened, but I doubt if they would before—the foul and noxious water, un removed by deep drains.

15th 'In what manner do the most approved bankbuilders, dispose of their superficial sods in embank ing a marsh, whose surface is composed or turf?

Bankers always, I believe, face their mound with these sods, cut with some care and laid up with caution .- They brace the work and hold the soft mud until the whole settles into proper

16th 'Is it necessary in very solid marsh, to allow more than 4 or 5 feet, from the edge of the ditch to the commencement of the base of the bank, which is not required, from its situation, to have more than a feet base and 4 feet elevation; especially when the water upon the outside is perfectly salt, and no muskrats apprehended?

17th. '1s it not invariably improper to open two ditches, one on each side of, or near to, the bank with which the bank is constructed, from a single

exterior ditch?

where the mud is solid and there is no ditch in the inside, I see no objection to cutting within 5 feet of the bank; but I would by no such a communication are enough to exhaust neans, cut desper, so near, than one spit of the patience of ordinary readers. Such alone, and; nor would I on any account, make a nitch on either side of the bank, not even on minute particulars, will bear with its prolixity. the outside.—We leave 30 feet, and sometimes 10, between the bank and river, and cut the posed to possess any interest. If, therefore, and promiscuously, always avoiding deep holes lany of your readers can extract from all I have for fear of the rat; and where the bank is made said, sufficient to guard him against a single exwith the above care, there is not the least daner from them.

18th 'Do the artificial grasses in reclaimed marshes pon the sea-board, invariably perish when inundated accordentally for 6 or 8 hours by salt-water, very little ariuted, and where little or no rain has fallen to satucate the earth with fresh water, immediately before such casualty?

i presume not; it is said they do not; where at the most beneficial effects have followed.

19th. 'Are not grasses considered essentially the growth of fresh, unsalted ground, much more capable of sustaining life and vigour after such inundations of halt water, than is generally imagined, especially in old meadows having a condensed growth of timothy?"

25th 'Is there any one of the artificial grasses, endowed in a superior manner, with the power of resist-sired information, than ing the injurious effects of salt water?

i am unable even to give an opinion, upon iese two subjects

21st. 'Is it not much more difficult and hazardous, or these reasons, to attempt the reclamation of marshes situated imprediately contiguous to the wa-

ter of the ocean; and do not breaches frequently oc. cur in banks from violent tempests, or from the perforations of muskrats?

It is both difficult and hazardous, and unless the works be made sufficiently strong, I consider it an idle undertaking. If the marsh be overflowed with water ever so salt, and the perpendicular rise of the water over it were 20 feet, there cannot exist a doubt, I conceive, but what a dyke might be constructed to keep the tide out, and that the land might afterwards be drained. The expense, no doubt, would exceed the profit; but then, I think it could, neverthe. less, he done and be made fine land of.

22d. Is not salt water frequently admitted through the valves of the sluices, which are prevented from closing by extraneous bodies being occasionally lodg. ed in them?

25d. 'What precautions are found most effectual to prevent these accidents "

Answered in 6 and 7.

24th. 'What meadows have been inundated by the late violent tempest? Were their banks broken down, or did the water overflow, without destroying them &

Our's were overflowed in September-300 acres were flooded a foot deep, by the breaking in of the dykes in two places; owing to springs of fresh water, near the fast land under the bank; the storm was frightfully severe, and the tide rose higher than had been remembered for filty years-the breaches in the bank were almost immediately repaired, but the tides, owing to the continued violence of the winds, could not fall and the grounds remained, in consequence, overflowed two days; after that it gradually disappeared, and the fourth day the surface was again bare. What little timothy the drought spared the salt water has not affected injuriously, and the grain sown since the flood, is of a good color and looks thrilty.

I am really ashamed of this letter, and yet I could not make it less tedious, for the details of I presume, as feel an immediate interest in these It is to such only, that such letters can be suppensive error, I shall be recompensed for my triffing exertion; and you, my dear sir, will find ample compensation in the reflection that you were the instrument of it.-I desire, most ardently desire, that my favorite theory should obtain proselytes; I feel a conviction, that the subject I have been treating of, will attract increased attention from the public, until every ach casualties have happened, it is represented acre of villainous sunken bog in the country shall be reclaimed and converted into the richest arable and pasture grounds. The subject is one of the greatest importance to every state bordering on the Atlantic, and my only regret is, that you had not applied to some one (not more disposed, but; more capable of furnishing the de-

Dear Sir, Your ob't. serv't. SAMUEL SMARTWOUT!

J. S. SKINNER, Esq. Bultimore.

FOR THE AMERICAN FARMER.

CEDAR PARK, Nov. 8th, 1819...

Mr. SKINNER,

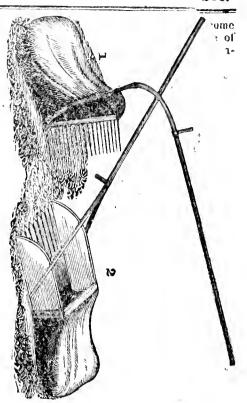
inst, your favour of the 29th October, requesting some seed of the large Pumpkins, grown this (whether from drought or some intrinsic defect, to Mr. Thomas Norris, of Baltimore, to be dis tributed among them. I now send you a protant in rich soil, I am persuaded that in a favourable season they will nearly cover the ground with fruit. I tried this year at the Farm on which I reside, a few rows in a car of 24 acres of corn, the rest of which was planted in common Pumpkins, two seed in every second hill, at 43 feet, say in squares at nine fect. The corn was planted about the 15th of April, the Pumpkins amout the 15th o of May-the large Pumpkins appeared to viels as well as the common, and those gathered weighed from 30 a 100 wt. each; whilst the common were from 10 a 50 wt. ! -the 24 acres, produced an incredible quantity, many thousands -they have been used by my people at will, for themselves and their hogs, and from 2 to 3 ox cart loads a day have been distributed to cattle hogs, and those borses that would eat them. (which all thrive rapidly), and collected in heaps and covered with corn stalks, they will last, I expect, till the new year. The large Pumpkin proves less palatable than the common, and is more susceptible of injury from frost, and indeed has no advantage but its superior size and ripening earlier. The Pumpkins had no other cultivation than what was necessarily given to the corn, and being plant- formed of three thin boards of oak or pine-th ed a month later, the vines were not in the two side boards 18 to 20 inches long, 9 broa way of the last ploughing. I do not think that and 3 hs thuck—the bottom board a foot broad I made an ear of crop less for the additional armed with teeth 8 inches deep and 4th of a stripped, appeared at a distance almost to board does not extend within 3 inches as fa cover the ground —I tried the Baltimore mai back as the side board—and is bevelled off in ket with about 1000 very fine, but the price and demand were too limited to make it an object; but at \$5 per hundred, they would have yelld ed more than \$100 per acre. On a rich part of the corn field at Westhury, in addition t. Pumpkins, I scattered, about the 10th of July, Ruta Baga seed-The season proved very fatal will collect 4 flour barrels full, well packed. to that crop, and as it was sown too thick, and never thinned, the roots were generally small; but the experiment convinced me, that the of small bulk do not require turther curing three crops may be raised together with advantage on the same ground; the product of corn from the whole cut, exceeded eight bar rels to the acre; the Pumpkins very fine, the lindiscriminately. Ruta Biga indifferent.

The American Farmer edited by you, plea-

ses me more in its plan and execution, than any agricultural publication I have seen. H promises to collect, preserve, and diffuse useful information: to bring into general notice and DEAR SIR.-I did not receive, until the 6th use the best agricultural implements and mabinery; and to introduce valuable seeds and Fants not hitherto cultivated among us, and year on my Farm at Westbury, the account of the best kinds of those that have been. That which was published in the 25th No. of the I am not myself a subscriber is, because my American Farmer-24 of them were sent, as son, who lives with me, is; but I file your pa then proposed, to the Baltimore market, but pers and must apply for numbers 19, 21 and 22, the purchasers being disappointed in seed which from some casualty never came to hand, which proved deficient in quantity and quality, and I would suggest the utility of a periodical Index. That I am not a contributor, is, be-I am unable to determine, as I never cultivat-leanse my experiments and observations have ed them before.) I forwarded a parcel of seed not been digested or preserved with sufficient accuracy; and indeed, from long desuctude 1 have lost the habit of writing, and now shrink portion of what I reserved A gentleman, who involuntarily from pen, ink and paper; - but believe introduced them here from Boston, to prove my favourable disposition, I will add tells me, that they are more properly termed that in your last number, you have given a the Persian Squash. They produce but few good plate of a very valuable Horse Rake for to the vine, but planted close, say 4\frac{1}{4} feet disgrathering clover seed, which you suggest in a gathering clover seed, which you suggest in a note, must prove defective from choaking .-- ! ave long used it .- The second crop of clover should be left to become perfectly ripe, where it will appear black and crumble to the touch: he machine should be used when the dew is off, say after 9 or 10 o'clock; the driver should 50 furnished with a light hoe, which lies in the machine, and when the teeth begin to chook. in must clean them by drawing the seed and chaff into the body, and continue this till the andy is full, when he empties it on the ground, and continues his course, taking care always to make his deposites contiguous to each other, forming lines through the field; along these, the cart afterwards moves, when they are collected and trodden in ; but these masses must be open-11 before finally put away, or they will heat d the seed be destroyed .- These machines with a man and horse will collect from 16 to 20 flour barrels packed full, in 6 or 7 hours, equato 4 or 5 bushels of clean seed.—I also usen hand-rakes, both iron and wooden, which said farmers on a small scale still better. [See cut.] The iron Rake No. 1, requires a strong man to carry it 6 or 7 hours. The wooden Rake No. 2, may be used by a child of 9 or 10 years. It is crop of Pumpkins, which, when the corn wa finch from each other, and pointed—the bottom back as the side boards, and is hevelted off in the middle parts, to facilitate the fathing or of the seed and chaff into the big; out this must at times be assisted by the hand-he ba., of linen is attached to the back part of the machine, and goes over the top and bottom. A boy or girl of 10 or 12 years old, in 6 or 7 hours (equal to a bushel of cleaned seed) which should be placed conveniently in the field, and being these hand machines may be dragged over the cleanest parts of the clover, so as to avoid the seeds of weeds, which the horse rake collects

I remain with esteem, &c.

JUHN F. MERCER 15th Nov. 1819.



Note by the Editor of the American Farmers

In addition to the conclusive testimony of colonel Mercer, as to the practical utility and efficacy of this machine—we offer the following extract of a letter from maj. T. Emory, of Queen Anne's county. We are glad to have our misapprehensions thus so satisfactorily removed-for now, the cultivators of land in Maryland, can have no decent excuse for continuing to buy their clover seed at an enormous expense from Pennsylvania; or for neglecting to sow it, on account of the great expense of purchasing seed. This implement, so well and minutely represented in page 253 of the Farmer, is so simple that any rough carpenter may make it; and those whose operations are yet in a more contracted scale, may have recourse to fol Mercer's hand-rik-s-to him who would live by he plough, and would attempt to execute any plan of permanent improvement of his farm, without any rehance on clover or other upland artificial grasses - we would recommend to burn his plough and call on the sheriff to sell his farm at once; for sooner or later it انياد come to that.

### Extract of a letter from Maj. T Emory.

" I observe in your last number a drawing of the mechane for saving clover seed, of the efficiency of · which you seem to entertain considerable doubt. I have used at for six or seven years and can confidenly assure you that it is completely adequate for the purpose intended. If the clover is ripe and dry-"it will gather off perfectly clean and with great "ease; but if it is not ripe enough, or, as is sometimes the case, a later growth is pushed up amongst the ripe, then it chooks a little, but is freed in an instant by a brush or two of the hand. I have constan by viewed it as a simple and most excellent invention, made by whom I know not I observe, also, that two of your correspondents are it issue on the value, or pest, of the rapple grass, or narrow leafed plaintain. I have long thought this grass too "rigorously condemned, and have agreed with Mr. " Kirk, at least so far as to determine, that I would not cradicate it if I could.

I remain, very tru y, Your's, &c.

THOS. EMORY."

PAC"-== Wed Die FOR THE AMERICAN FARMER.

NEW-LONDON, Nov. 10, 1819.

by te, of ct. Skinner, OF DEAR SIR, Inclosed is a small specimen of the Leghorn braid, manufactured in Hartford County, in this state. It has been in my hands ling a revenue is from imports. nearly a year; and has lost, perhaps, some of the cheapest or the easiest, I shall not inquire : one of them be fostered, or neglected, it will ges, you will be gratified to see that the sample,

without doubt, is the perfect Leghorn. I regard the discovery as important to our spirit, economy and patriofism sufficient to en-

ladies who first made the discovery.

The grass (of which I also inclose you a specimen,) used in the manufacture, is found in lureign produce or manufacture? But there great ahundance on the low grounds on the is an immensely great difference between paymargin of Connecticut river; it is also found ing a tax of 20 dollars directly to the governplentifully in some parts of Litchfield county; ment, and 120, of which 20 goes to the support milk, and I table spoonful of butter. The pan and, indeed, if a strict search was made, I be- of government and the remaining 100 go out of greased and floured, and baked with a quick lieve it might be found in all parts of our count the country, never to return ;--- to support fire. try. I do not know the botanical term for it .-It is known, generally among our farmers, by pose a farmer had 120 dollars to spare, and One pint and a half of pulped Ruta Baga, a the name of "tickle month"—although some that he paid 20 dollars of it as a tax, and lays half pint of wheat flour, 4 eggs, a half pint of call it "wire grass." It is found on the low out the 160 in domestic goods, of no more real suet, 1 pint of milk, the pan as before. grounds: it grows from one foot and an half value than could be procured for 120 dollars of eat it; when it is fit for gathering, it has a light yellow colour. Care should be taken not to In the first case, the colour will not be good; and in the second, the braid will prove brittle. The round spires are the proper ones to be used; care is required to select them as near one size as possible. After all that can be said on this subject, much will be left to employ the genius and judgment of the ladies.

I will not endeavour to instruct, respecting the braiding-those who are dispused to make the experiment, can obtain a piece of the im-

ported braid, and dissect it.

I have been told, that where the grass cannot be found, Rye straw, that part next to the heads, will answer for a good substitutewhether this is a fact, I am unable to deter-I am, sir, mine.

Editor Am. Earmer.

FOR THE AMERICAN FARMER.

### DOMESTIC INDUSTRY .... No. IX.

Baltimore, Nov. 1819.

est, the easiest, and the best mode of collect-culture, commerce, and manufactures: for its original whitness: \* it is, also, of the coarsest but that it is the best, I positively deny. Our produce a disease that will in time infect the quality, being one of the first experiments to duties on imports, average about 20 per cent. whole three :- commerce has been fostered too imitate Leghorn. Under all these disadvanta- that is, on every hundred dollars' worth of im- much; manufacturers have been neglected too ported merchandize, twenty dollars assessed long; hence agriculture, commerce and manuand collected for the support of the govern-factures have all become palsied. ment. Consequently the price is augmented country—the article being in extensive wear; from 100 to 120 dollars. It follows, that on but there can be no advantage derived from every 120 dollars worth of imported articles, this discovery, unless our ladies can have which we purchase for consumption, we pay a tax of 20 dollars, and the merchant or storecourage the manufacture of this American Leg- keeper is the collector. Now, what great difhorn. As the subject may be interesting to ference is there between paying an annual, or practised in the sale of Ruta Baga seed, have some of your readers, I will briefly state all the semi-annual tax, proportionable to our usual ex-brought that important vegetable into great disinformation I possess in relation to it; and penditure, to some person authorised to recredit. From the experiments which have been which has been furnished to me by the young ceive it and paying the same amount in piece made in my kitchen. I have reason to believe meal, to every inerchant, storekeeper and dea-lit the most valuable esculent in this country. I ler, from whom we buy a single article of send you the following trials. foreign industry and to paralize our own. Suppose a farmer had 120 dollars to spare, and One pint and a half of pulped Ruta Baga, a to two and an half feet high; cattle refuse to foreign wares; in this case the 100 dollars will stay at home, and be distributed between the spoonsful of flour, a tea cup and a half of heef storckeeper, the manufacturer, the labourer and macrow, 3 eggs, 2 tea-spoonsful of mace, and gather it when too green-nor when too dry the farmer, or other person or persons who tur- one pint and a half of milk, the pan greased as nished the raw materials; and finally have a tendency to increase the price and demand of every article the farmer has to sell. Future generations will read with surprise, the history to transport 100 out of the country. from the historian, that thousands of people were, at the same time, in want of bread through the want of employment, though flour was only five dollars per barrel, and tens of millions of dollars exported annually, to pay for working up our own raw materials in other countries .- the smile will turn to an expres-SIMEON FRANCIS.

SIMEON sion of astomshment.-What fools! they will Princess—nay, more! for the Presidentess of this ject is too mortifying to dwell on for a moment; Harmony, on the Olno, in Penn, was probably too far Republick—The Editor of the Farmer has deposited —let us quit it then.

very branch of domestic industry, must lan guish, and the wealth of the country decrease lin proportion to its increase of population.

Let none suppose that I am an enemy to commerce. I sincerely wish it prosperity; and am fully convinced that, let other nations act as they will, the true policy of the United Mn. Skinner,-We are told that the cheap- States is to give equal encouragement to agri-Whether it be then they will mutually aid each other; but if

> Your's, &c. COGITATIVUS.

FOR THE AMERICAN FAILMER.

MR. SKINNER

abuve.

Sir,-The impositions which have been

To make a Ruta Baga Pudding.

One and a half pints of pulped Ruta Baga, 2 spoonsful of wheat flour, 4 eggs, 11 pint of

Another way.

Another. One pint and a half of pulped Ruta Baga, 5

The above were mere experiments. puddings were excellent, and were eat with sauce. As to the mode of mashing them for of our policy, and smile at the simplicity of dinner, on account of their dryness, there those who, in order to apply 20 dollars to the should be belonging to the kitchen a piece of support of their own government, were obliged wend, shaped like a mudler, which is used in But bars for mixing toddy, and enough milk to when they read a little further, and learn moisten them while mashing. As much butter as may be palatable when mashed.

FROM THE NATIONAL INTELLIGENCER.

On the Grape Vine, with its wines, brandies, salt, and dried fruits.

The experiments made at Harmony in Pennsylva-Let none suppose that I wish this to become Vevay and Harmony, in Indianna are in more suitable materials, to the exent of its own consumption and experienced writer from Vevay, thus expresses lill that be done, commerce, agriculture, and himself: He "thinks the whole of Alabama doubtless better adapted to the culture of wines than the more northern country of the U. States; because the

this handsome specimen of American temale patriotductions, along with the sample of superb blue cloth a manufacturing country, to the extent that letter from a variety blue cloth a manufacturing country. Arom the factory of Mr. Dickinson, of Stubenville, some others have. What I contend for is, respectable friend of his, lately on a visit to Phi.a. It that it ought to manufacture its own raw is dated on the 28th of Aug. 1819. The intelligen

Some ladies have thought the American Leghorn very beautiful, until they were told it was Americanshen they could discover that it was not quite so fine as they at first thought. Thus are our judgments too often perverted by false taste and prejudice

<sup>\*</sup> Veray, on the Ohio, is in 38° 20' N.

one, two species of grapes that succeed in the United tucky; where a dry, hard sal, occasions the grape to ripen and yields most. But t will not do at all at climate of our country, at present and in prospect. ripen and yields most. But t will not do at all at climate of our country, at present and in prospect.

Vevay; and does better at Glasgow, f Ky. The various gardeners at Kentucky can turm-h some. Vinedressers would go to new vincyards from Vevay. They

South of the Rio bravo del Norte, there is authentic

South of the Rio bravo del Norte, there is authentic

mestic manufactures—a uniform currency—at have had 500 gallons of wine per acre at Vevay; evidence, in a report to the government, that the vine more, often 150; and 260 is a good crop. The Ma-grows well, though its culture was forbidden by the deira grape would twe more than the Cape of Good crown, produces good crops of fine wine, and supplies Hope grape, where it would prosper, but must have the province and its neighbors. That country being time to ripen, to be good. Of the labour, much may as far South as any part of the Florida, it is ascertan-be done by women. They do about half. The man ed that, where this country has become, or shall be trim, make layers to fill vacancies, plough, harrow, made dry enough and cleared, the vin region runs to hoe, and carry the grapes and make the wine. None the Southern limits of the United States, even if we of those works are heavy. But trimming reshould maintain our right to Louisiana in extense, in quires attention and discernment, for the vine dresser consequence of the apparent frustration of our offer must look two years before him, when he cuts each scion; women never do it, though light work. He has seen many women do it as well as any man. A best Neres, or Sherry of the district around the city of little work in vineyards is to be done by night with Keres de la Frontera, in Andalusia. The vineyards of lamps. When the grapes have got their size, the that district are, in situations corresponding in tempeericket (not of the house or field) eat, in the rature with the most extreme Southern parts of East night, the bark of the stem of the hunches, and Florida and Louisiana. It is interesting to our inquiry, ring or girddle them so that they die. They injure that all the Portuguese European wines are produced the bunches rapidly. They must be watched and in situations North of Xeres, such as those called by us searched for with lamps, by night, and destroyed the Lisbon, the Carcavella, the red and the white Port, He says the native vines will not do to graft good or Oporto. It is observable, also, that the Malaga, or kinds of grapes on: he has trace it often, without sweet and dry mountain, wines of Spain, long highly well, yet they are a different tree, being doic, while lonia, which three kinds we principally import, and the vineferous kinds are hermophrodites. I have found all the Spanish brandies we consume, come from dis the same wild vines in Switzerland, and the kind call, tricts as far North as that of Xeres. The wines of Cas- ing to the well known terms of this paper. We ed sour grapes makes pretty good wines; but are tile, and other interior districts of Spain, which are ed sour grapes makes pretty good wines; but are a smaller bearer than the grape vines. They are in Morerod's vineyard, at Glasgow. Kentucky. The places also North of Xeres. We can have no reason to lieve, that any gentleman would willingly displaces also North of Xeres. We can have no reason to lieve, that any gentleman would willingly displaces also North of Xeres. We can have no reason to lieve, that any gentleman would willingly displaces are the places also North of Xeres. They are the places also North of Xeres. We can have no reason to lieve, that any gentleman would willingly displaces the places are the places also North of Xeres. We can have no reason to lieve, that any gentleman would willingly displaced the places are th Spanish grapes of Mexico and South America should be track. They have been long cultivated. He is mountain sides, with South exposures, shall be carevaising grape vines from the seed, to obtain flavor fully selected, the most southern of our states, territo-fully selected, the most southern of our states, territo-fully selected, the most southern of our states, territo-fully selected. They have been long cultivated. He is mountain sides, with South exposures, shall be carefully sold the most southern of our states, territo-fully selected, the most southern of our states, territo-fully selected. The mountain sides with south exposures and small in regard an oungation of the selected that the Editor is bound, when it is recollected that the Editor is bound, but it is mountain sides, with South exposures, shall be carefully selected. The mountain sides with south exposures, shall be carefully selected that the Editor is bound, when it is recollected that the Editor is bound, but and quantity of wine. The vine is of long life, but it ries, and districts, will be as suitable for the vine, its is ten or fifteen years before it bears fully from the wines, and dried fruits, as the most proper and fruitful parts of the peninsula of Spain and Portugal. The by cuttings, which have taken root freely in the works of travellers, agriculturists, and men of distinc first year, bear fruit in three years; in five they are in tion in the arts and sciences, upon the subject of the full force. He has considered and inspected the vine vine, and wines, and dried grapes of Spain and Portuyards of Europe, and the cultivation by the plough gal, are therefore strongly recommended, by our best and otherwise. It is to be studied to save labour and interests, to the attention of our citizens, especially make the greatest crops. If the fendant vert will grow concerning the vineyards of Xeres, St. Lucar, Malaga, as well here as in Switzerland, 800 gallons per acre and Oporto. The Portuguese send to us no brandy might be made. They cultivate by the plough in the Spaniards a little of that spirit which is not estimate Languedoc, about Montpelier and Lunel. We make cd as good. It seems, from the excellence of the win-here to be like Madrira, and sell it at 372 cents French Cognac brandy, the best, and the farthest per quart, and S1 25 per gallon; but cannot make North of any denomination of brandy which we know, enough to s nd abroad, or to keep for ripening that the extreme South is not the most favorable for More rod made a cask of \$50 gallons, full of wine, of the delicacy, though it is for the quantity of that spirit. his votage, to be kept eighteen menths or two years. The Cette brandy of France is not liked here, but it has seen wine (made of grapes, like Vevay) at has been said that much Armagnac brandy is used in Glasgow, (in Barren county, Kentucky,) better than Paris. The celebrated French chemists of the grape most every number—many and of distilled and fermented wine spirits, was a native of Wordy grapes. It is probable that wine of properties and took very great pains to improve the least of the grapes were gathered a fortnight before the Very grapes. It is probable that wine of properties and took very great pains to improve the least of the grape and old its light and took very great pains to improve the grape and old its light and took very great pains to improve the grape. the banks of Tennessee will make 1-4 brandy; if of prove the vine, and all its liquors, in that Southern Cape of Good Hope grapes, common proof; Yevay yield d 1-5th; the best cider 1-10th; so do the best Burgundy wine, and that of the border of the lake of Geneva, in ood years. The strong of of all the wines that I know of, is that of the south of France and spain, which yields 1-3rd brandy. The peculiar mode of vine cultivation at Vevay, Indiana, is worthy of a ention being a combination of various European Vine, with the art of preparing wine, brandy, &c. By as we are told, as well in the measure, as in the quamodes, and Americ n improvements adapted to the chaptal, Parmentier, and Dasseux. 2 volumes octave, liky — Maryland Tonacco, 3° hogsheads, sold the precountry. Some young men, bred at Vevay, would be parts, A. D. 1801. In French, Chaptal, P. and D. sur serial in other places. Air. D. thinks the blacks may be taught to culturate wines. 2 Forms and D. sur from Calvert country - Virginia Tobacco, 6 hhds., sold be taught to culturate wines. 3 Forms and an arrelation of the precountry. Some young men, bred at Vevay, would be parts, A. D. 1801. In French, Chaptal, P. and D. sur serial in other places. Air. D. thinks the blacks may be taught to culturate wines. 3 Forms and an arrelation of the precountry. Some young men, bred at Vevay, would be parts. A. D. 1801. In French, Chaptal, P. and D. sur serial in the precountry. Some young men, bred at Vevay, would be precountry. Some young men, bred at Vevay, would be precountry. Some young men, bred at Vevay, would be precountry. Some young men, bred at Vevay, would be precountry. Some young men, bred at Vevay, would be parts. A. D. 1801. In French, Chaptal, P. and D. sur serial in other places. Air. D. thinks the blacks may be a controlled by the precountry. The precountry is the precountry of t be taught to cultivate vines," So runs and conclude: the letter from the judicious writer, at Vevay of the United States, s-titled by persons from the original Vevav of Switzerland. It is very instructive and would seem to prove that, as so much of our country conknues in the wood and forest state, an with many un framed swamps, making a himmed the sphere, and a most soil, Vevay, in 38° 5', is not yet perfectly so fav rable, even as the vicinity of Glasgow, in Ken-

States are of the late sort, having not time at Vevey, be freer from injury by moisture of the earth, and of Ind. to ripen. The Alabama season, being longer, the air. Glasgow is also about one degree and one will give more time, especially the Madeira grape, half more Southern than Vevay. These indications are great importance, and will require the best tawhich gives the best wine of the two, where it can distinct, nice, clear, and strong, in regard to the vine lents, and firmest patriotism of its meinbers to

to limit ourselves by the Sabine.

The most distinguished wine of Spain is the true and Grape vines grafted on the same kinds do esteemed by medical men, those of Alicante and Cata-

> A Friend to the National Industry. Philadelphia, Nov. 1, 1819.

region.

in every planter's hands, and in every agricultural and country Oats 50 cts -between what is called country public library. The title of Mr. Chaptal's work is "A Theoretical and Practical Treatise on the culture of the 10:00

#### EXPORTS OF COTTON.

From South Carolina and Georgia, from 1st October, 1818, to 1st October, 1819:

From Charleston, to all parts-- Upland. 11,248 bales; Sea Island, 9865 bales.

From Savanna . t all parts-Upland. 94,989 bales; Sea Island, 7489 bales.

The subjects which must necessarily come before Congress, at their next session, are of hring to such a conclusion, as shall be satisfacuniform bankrupt system, which will be imperiously demanded, by some millions of petitioners,—a revision of the Revenue Laws—concerning slavery-and though last, not least, concerning the mode, as well as terms and conditions in disposing of the public lands .- Rost. G.

### THE FARMER.

BALTIMORE, FRIDAY, NOVEMBER 26, 1819.

THE POSTMASTERS, in the United States, at whose Offices, even a single number of the American Farmer remains uncalled for-are carnestly requested to send it back to the Editor. The recovery of the papers not taken up, if any, is the more important, as in every case of subscription a complete file is de-manded-each individual number, therefore, has its intrinsic worth to the Editor.

BILLS have been sent to those who have forgetten to pay their dues in advance, accordoth by inclination and contract, to pay off very week. In

We have been desired to make inquiry, whether any mill or other machine, has been invented for break. ng up cars of corn, cob and all, without shelling. If any have been, we would be glad to be informed—and finone have, we would suggest the utility and proable practicability of a machine for that purpose. build not one be constructed of cast iron, somewhat on the principle of the coffee-mill ?- for feeding live stock, it would be highly important.

We will respectfully repeat the request, that as far as practicable, each or of our present subscribers would add another name to our list.-This would enable us to give a valuable engraving in almost every number-many of which engravings would

Present Prices of Country Produce in this Market.

Actual sales of Wheat-On the 23rd, and 2rth inst; iom Queen-Anne's and Caroline, Ren-Wheat, SI 8 to \$1.16-No sales of White Wheat Cons, 55 to 58 cts. \* Chaptal, whose writings on the subject should be RYE, 50 to 55-OATS, 40 to 42 cts. at the whart-up Oats, and wharf Oats, sometimes called Eastern Shore, sometimes Virginia Oats-there is a great difference, the present week, by William W.Donald & Son, for \$8 & 8 50-Do. 2 hlids, of very superior quality, for

Sixty head of fatted Cattle, were purchased the iast week, by Mr. John Rusk, for \$6- Also, twenty-ino from belieware, fatted by Mr. Ext ne, and of a support rior quality, were purchased at \$7.

For Whiskey, and Flour, and North Carolina Star ies, see our last number, page 273 No vacat sheem Hay, per ton, \$18—Straw, \$11—Country Oats, 58 cm

### PRICES CURRENT

AT BALTIMORE:

Carefully Revised	d and		recte		ry <b>T</b> h	ursday.
ARTIC	LES.			ren.	RETAI	L PRICES
BEEF, Northern n			-	501.	17	1
No I	.,000	-	_		15	1
No 2	-	-	-		13 5	0
Bacon,	-	-	-	lb.		6
Butter, Ferkin	-	•	-			8 20
Coffee, first quality	7, -	-	-			33
second do.		-	-		1	28
Cotion,	. <b>-</b>	-	-	1	1	15
Twist, No.	ο, 6 α 10	n -	- <del>-</del>	ĺ.		16 50
	$\prod a$		- <u>-</u>			3 80
	20 a S		-	1		0 1 20
Ghocolate, No. 1,	_		•		3	13
No. 2,		-	-		2	!s
No. 3,	-	•	-			5
Candles, mould,	•	-	-	pox	1	0 22
dipt, -		-	-		1	8 19
spermace		•	-	lb.		5 scarce 9 10
Cheese, American, Feathers, -				11/1		0 65
Fish end dry -	-	-	-	qt].		0
herrings, Sus	queha	nnah	,	bbl.	2.7	5 retail
mackarel, No			-		9	12
shad, trimme	d,	-	:			5 7 87
Flour, superfine,	-	Ŧ,	-	ļ, , ,	6.5	1
fine, -	-	-	-	bbl.		0 6
middlings,		•	•		4 5 4 a	
rye, - Flaxsecd, rough,				casla	none.	
cleaned,	•	· .	- <u>-</u>	bush	do.	
Flax,	-	-	-	lb.	do	1
Hides, dryed,	-	•	-		1	2 15
Hogs lard, -	-		-			2 13
Leather, soal,	-		-		2	
Molasses, Havana,	-	-	-	gal.	62 1-	
New Orle			-		1 '	5
sugar hor Oil, spermaceti,	use,	-		gal.	15	0
PORK, mess or 1st	quali	tv.	-	bbl.	:8 a	1 1
PORK, mess or 1st prime 2d	do.	٠,, ـ	٠.		16 a	· • :
cargo 3d	do.		-		14 a	15
Plaster, -	-	•		ton	5	
ground -	-	-	-	bbl.	1 7	
Rice,	- non ob	- 11h	- -	lb.	2	6 3
SPIRITS, Brandy, F.	each	1, 4 (1) 4th	proof	gai.	1 2	
	pple,		proof.		7.	•
Gin, Holla		lst	proof		1.5	0
do.			proof			
do. N. En					5	
Rum, Jam			- ^		1 5	
	rican		proof		7. 5	
Whiskey,	hite	ist	proof	lb.	1:	
Soap, American, wl	own,	-		****		9
Sugars, Havana, wh		-	-	1	1:	-1
brown,	<b>-</b> ´	-	-		14 50	
loaf,	-	-	-	. 1	2.	1
lump,	•	-		lb	20	
Salt, St. Ubes, -	e und	-	-	bu .	7(	
Liverpool, grou	una,		ا _ ا	<sub>lь.</sub>	7. 1:	
Shot, all sizes, - TOBACCO, Virgin	ia fat			cwt.	7	1 1
do		ddlin		~	6 50	0 .
Rappa			· '	-	5	5 50
Kentu	eky,				6 5	
small twist,	manıı	factur	ed,	lb.	23	
pound do.	-	-	-		50	-;
TEAS, Bohea, Southong,	•	-	• _	lb.	6; 7;	
Hyson Skin	-	_		10.	7.	
Young Hyso	on.	-	-	. 1	1 2	1
Imperial,	-	•	-		1 7	
WOOL, Merino, cle	ean,	-	-		80	
un	wash	ed,	-		40	
crossed, ele		, -	-		6.	
	wash		-		3.	
common co	untry				3'	
škinner's,		4017	ashed -		3	
destruct of		•	-	• •	, ,	

fined taste, in Washington, - our attention has been pointed to some beautiful reflections on Plantino, in that chaste and classical work, the Spectator. In succeeding year than they did in the foregoing. this, last page, usually reserved for light reading, we But I do not only recommend this art to men give one of the papers on that subject. The necessity and utility of planting forest trees, in a country so much exhausted of its original growth, was emphatically adverted to in the address of Mr. T. Law, the we ought to have for our country, and the regard President of the Agricultural Society, in Prince-George's county; and we are glad to perceive, by another address from him, recently forwarded for publication in this paper, by order of the same Society, he has recalled the attention of its members to the same topick. In the story of the loves of SHALEM and HILPA, the value and importance of extensive plant tions, are beautifully illustrated. This story will be copied into some succeeding numbers of the Farmer Editor Am. Far.

FROM THE SPECTATOR.

With his own hand, the guardian of the bees For slips of pines may search the mountain trees; And with wild thyme and sav'ry plant the pian, Till his hard horny fingers ache with pain; And deck with fruitful trees the fields around, And with refreshing waters drench the ground.

Dayben

Every station of life has duties which are proper to it. Those who are determined by choice to any particular kind of business, are indeed more happy than those who are determined by necessity; but both are under an equal obligation of fixing on employments, which may be either useful to themselves, or beneficial to others: no one of the sons of Adam ought to think himself exempt from that labor and industry which were denounced to our first parent, and in him to all his posterity. Those, to whom birth or fortune may seem to make such an application unnecessary, ought to find out some calling or profession for theniselves, that they may not lie as a burden on the species, and be the only useless parts of the creation.

Many of our country gentlemen, in their busy hours, apply themselves wholly to the chase, or to some other diversion which they find in the fields and woods. This gave occasion to one of our most emment English writers to represent every one of them as lying under a km1 of curse pronounced to then, in the words of Gohath, I will give thee to the fowls of the air and to the beasts of the field.

Though exercises of this kind, when indulged with moderation, may have a good influence both on the mend and body, the country affords many other amusements of a more noble kind-

Among these I know none more delightful in itself, and beneficial to the public, than that of planting. I could mention a nobleman whose fortune has placed n in in several parts of England, and who has dways tot these visible marks behind him, which shew he has been there; he never hired a house in his life. without leaving all about it the seeds of wealth, and estowing legacies on the posterity of the owner. Had att the gentlemen of England made the same improvenents upon their estates, our whole country would have been at this time as one great garden. Not ought such an employment to be looked upon as too! angiorious for men of the highest rank. There have seen heroes in this art as well as in others. We are .o.J in particular of Cyrus the Great, that be planted if the Lasser Asia There is indeed something truly agmificent in this kind of amusement; it gives a ro remain to several parts of nature: it fills the earth with a variety of beautiful scenes, and has something in it like creation. For this reason the pleasure of one who plants is something like that of a poet, who, is Aristotle observes, is more delighted with his proluctions than any other writer or artist whatsoever.

Plantations have one advantage in them which is and to be found in most other works, as they give a pleasure of a more lasting date, and continually improve in the eye of the planter. When you have finished a building, or any other undertaking of the ike nature, it immediately decays upon your hands you see it brought to the utmost point of perfection,

[By a gentleman of acknowledged science and re-strary, when you have finished your plantations, they are still arriving at greater degrees of perfection as long as you live, and appear more delightful in every

> But I do not only recommend this art to men of esa tates as a pleasing amusement, but as it is a kind of virtuous employment, and may therefore be inculcated oy moral motives; particularly from the love which which we ought to bear to our posterity. As for the first, I need only mention what is frequently observed by others, that the increase of forest-trees does by no means bear a proportion to the destruction of them, insomuch that in a few ages the nation may be at a loss to supply itself with timber sufficient for the ileets of England I know when a man talks of pos-

> rity in matters of this nature, he is looked upon wath in eye of ridicule by the cunning and selfish part of mankind. Most people are of the humor of an old tellow of a college, who, when he was pressed by the society to come into something that might redound to the good of their successors, grew very peevish:
> We are always doing (says he) something for posterity, but I would fain see posterity do something for us."

> But I think men are inexcusable who fail in a duty of this nature, since it is so easily discharged. When a man considers that the putting a few twigs into the ground is doing good to one who will make his ap. pearance in the world about fifty years hence, or that he is perhaps making one of his own descendants easy or rich by so inconsiderable an expense; if he finds himself averse to it, he must conclude that he has a poor and base heart, void of all generous principles and love to mankind.

> There is one consideration, which may very much enforce what I have here said. Many honest minds, that are naturally disposed to do good in the world; and become beneficial to mankind, complain within themselves that they have not talents for it. This therefore is a good office, which is suited to the meanest capacities, and which may be performed by multitudes, who have not abilities sufficient to deserve well of their country, and to recommend themselves to their posterity, by any other method. It is the phrase of a friend of mine, when any useful country neighbor dies, that you man trace him; which I look upon as a good funeral oration, at the death of an honest hus-andman, who hath left the impressions of his indusry behind him in the place where he has lived.

> Upon the foregoing considerations I can scarce forbear representing the subject of this paper as a kind of moral virtue; which, as I have already shewn, re-commends itself likewise by the pleasure that attends It must be confessed, that this is none of those arbulent pleasures which is apt to gratify a man in he heats of youth; but if it be not so tumultnous, it s more lasting. Nothing can be more delightful than o entertain ourselves with prospects of our own makng, and to walk under those shades which our own industry has raised. Amusements of this nature compose the mind, and la. it rest all those passions which re nneasy to the soul of man, besides that they nature ally engender good thoughts, a d dispose us to laudable contemplations. Many of the old philosophers passed away the greatest part of their lives among heir gardens Epicurus himself could not think senual pleasure attainable in any other scene. Every reader, who is acquainted with Homer, Virgil, and Horace, the greatest geniuses of all antiquity, knows very well with how much rapture they have spoken m this subject: and that Virgil in particular has written a while book on the art of planting.

> This art seems to have been more especially adapt. d to the nature of m. n in his primeval state, when he had life enough to se his productions flourish in their utmost beauty, and gradually decay with him. One who lived before the flood might have seen a wood of the tallest oaks in the acorn. But I only mention this particular, in order to introduce, in my next paper, a history which I have found among the accounts of hana, and which may be looked upon as an antid lu-

vian novel

## AMERICAN FARMER.

### Rural Economy, internal improvements, news, prices current.

" O fortunates nimium qua si bona norint " Agriculas." . . . . VIRG.

Vol. L

### BALTIMORE, FRIDAY, DECEMBER 3, 1819.

#### AGRICULTURAL.

ON THE

### Cultivation of Fiorin Grass,

Bu Dr. RICHARDSON, D. D. Clonfeckle, Moy, Ireland. EXTRACTED FROM THE MEMOURS OF THE WORK-INGTON AGRICULTURAL SOCIETY.

[Concluded from No. 35-p. 276.]

I limit my speculations to your English meadows alone, and my claim to the performance of my promise, to the additional crops of corn grown on these meadows; converted to tillage by the powerful operation of fiorin grass, where its culture shall become

I speculate upon this under the assumption I have grade, that the conviction of the great value of this grass and landholders into action.

To calculate the effects I am afraid we have not data; but to have something positive to proceed upon, we must again speculate and assume.

I shall therefore suppose that by the exertions I have roused, fiorin hay and winter green food (applied to the same purpose) to be raised to the amount of half the quantity of hay produced by our present meather trade, that is, he broken up for tillage.

m'llion acres of choice ground; let us see how they

will operate upon our provision store.

I suppose every acre managed by skilful rotation, and to produce in every four years one crop of wheat 500,000 acres of wheat (for I shall not take the oats deratum; and for that I engage to any amount. into account) added annually to our present produce; Crops.

A good acre of wheat has been estimated on average contribute to the ease of calculation, to the clearness of the results, and may be allowed for.

Then 123 stone to each acre equal to four quarters of wheat at 32 stone gives us from our new acquisition, two million quarters of wheat yearly

The annual consumption of wheat in England has by others at eight millions.

The deficiency in crop in one of the worst years, 18%, or 1801, was supposed by the Duke of Portland to be one fourth of the averaged crop, and estimated at two million quarters of wheat.

The in portation in each of these (by far the greatest ever known) passed considerably, one million without reaching a nullion and half quarters.

From these materials it is plain that the transfer of two million acres of meadow to the agriculturists for grain crops, will fully answer every purpose;-will not only bring up the food to the level with the population, but also will secure an abundant provision for increasing population.

For the quantity of grain thrown into consumption by the acquisition of these meadows for exceeding the greatest quantity ever imported, on the greatest excy of the very worst year, must in all common seasons secure a vast fund for exportation, by a certain redundance above all demands.

The only question of difficulty is, shall we be able to lop off one third from our present meadows?

I can only speak for Comberland; you cell me the grounds is established; instead of one third-nine cannot plant form in some scale? enths of rour present meadows must vanish before their more fuxurant and more cheaply raised rivai.

Sorin-have I not repeatedly challenged Bagshot Heath? and though I succeeded in tempting the Marquis of Heriford to encounter his peary mountain. he quis of Heriford to encounter his pearly mountain. he landbolder do something, as if under the conviction, would not let me try to convert his barien Suffolk that the prosperity, may the very expetence of his convert. sands into florin meadow.

These I confess are extreme cases; and I do not say the crops, I answered for, would pay the expense; but it is convenient to know the atmost extent of our powers; as when fairly within our limits we may venture with confidence.

You and I have had much conversation on the subject of the sandy turnip grounds, of Norfolk, in which much that I would not be able from such soils to produce the crops of dry hay they require so much in that country, to temper their over succulent clover, and turnip feeding.

No doubt had I an option; it is not to such parched soils, I should recur for fiorin crops; but where it becomes necessary I should not shrink from them.

The important difference would be, that instead of dows; of course one third of them, at least, turned finding (as before) my own manure, askes or water, 1 out of their present employment, obliged to try ano- must call for pulrescent manure, (in small quantities er trade, that is, he broken up for tillage.

Indeed) to mix up into compost with the loose soil of ornal populations is 7,670,239—is this a prudent distance we have now restored to the agriculturist, two the place; and then by availing myself of the natural tribution of the natural force?—the great redundance history: end habits of this vegetable; I engage to produce as good crops of fiorin in Norf 1/2 as in moisture grounds; later indeed, nor would I answer as in other places, for a supply of green food in September, one of oats; and two green crops; we shall then have but as I understood you, dry hay was the great desi-

Why does the turnip thrive with so much luxuriance potatoes too will often compose part of the green in that loose arid soil?-because the great paraxyam of vegetation of the turnip, does not come on until the critical time; just as he is taught by you and me, to drought is nearly, over, and then continues in vigour avail bemeelf of their strength to his own great beneat 120 stone; I shall add a fifteenth, 8 stone as it will through the moist Autumn, when the length of the hit; and to the infinite advantage of his country, night, and (even when no rain) heavy dews; supply ample moisture.

Exactly the case with the florio, whose parox; sm comes on later; and continues longer; and I answer crop may sustain in summer; and arrange its period been estimated at seven nullion and one-half quarters, of laying down; so as to have the ground clothed early: that Norfolk shall produce as luxuriant fiorin, as Cumberland or Cloufeckle.

I need not recur to authorities to prove that the state of our country in respect of provisions, is very alarming; it is too well known; you have suggested two remedies; either of which you clearly prove, would be completely adequate to prevent, both immediate and faunce calamity.

I suggest a third; and as I think, have demonstrated that mine by itself would be fully sufficient,

Our three measures are totally distinct from each other, yet in many points they bear strong marks o similitude.

The end we both aim at is the same, and the greatestrational of jet; that can well be conceived; yet we never think of calling upon the state to aid us-uc run no risk of being told, that we shall not convert public money to private use; that we shall not make tremity, and more than equalling the whole deficien- parliamentary liberality; a mere source of patronage; we simply ask others to do what we have done ourselves with success—upon whom do we call? not upon the nation; but upon the individuals composing it, we call for exertious; immediately beneficial to themselves; and remotely to the state.

Is there a landhorder in the united kingdom, wie est of the county (as I understand of most of En Jean not co-operate in some of our plans? and how gland) abounds also with penty more surely in the longry in the nall; he who cannot extend his acriculcase when the aptitude of hum for such cheep tural field, may at least improve his practice; and who

Abla generals previous to a battle, have often in their address to their soldiers; told then that each I shall be told that much of England is too and for individual should consider the victory as depending on his own exertions, as resting upon his own arm alone. Is not our case at present exactly smaller? at each

> try; depended upon himself; the result is oband would be instantaneous.

Your desiderata and mine are precisely the confidence in us, and proportionate exertic part of others ;-was there ever so apt a ps so fit for enabling exertions to be carried t most extent as the present? our trade aboted at course much capital unemployed—our remufacturers is universally diffused; and has roused proprictors, you seemed to take a lively interest, and to doubt alle, and turbulent for want of food, we suggest immediate renedies for both inconveniences; we open sources for the application of capital, to the improvement of our wilds and wastes, -and in every part of the united kingdom, we find abundant employment for every man now thrown out of bis usual work.

Let us look to the state of England in another point of view,—the v hole population of England and Wales, amount to 9,3.3,578. The numbers employed in agriculture by the returns to the house of commons, but to 1,713,289, the excess therefore above the agriculof the manufacturing population; above what supplies our domestic consumption; and that of our colonics; we now find Les at the mercy of treacherous friends; or inveterate enemies; it is these who have thrown our manufacturers idle. Let then the igriculturist throw open his arms to receive the unemployed manuficturers; let him cherish them as a gift of providence bestowed upon him at the most

Let him treat them with kindness in their distress, and the natural propensity of man, to prefer the open air, to sedentary labour; will induce very many of them to adhere to their new trade, and the increase for it, if we keep in view the extreme drought the of the agricultural population will not be momentary but permanent. W. RICHARDSON, . D.

Moy, Ireland, Dec. 4th, 1811.

#### BUTCH THE TREATISE ON AGRICULTURE.

We have now the satisfaction to contine those valuable essays from the Albany Argus-six of which have been republished in the Farmer-the last one of them in number 25, page 193. Our file of the Argus, some how, got broken, and we now resume the publication from that excellent journal the PLOUGH BOY-a work which contains so much to admire and instruct. that were we to copy all that serves to amuse or to edify, we should transcribe the whole-four numbers more comprise the whole of these essays.

Later Am. Farmer.

### Treatise on Agriculture.

SECTION VII.

OF TILLAGE, AND THE PRINCIPLES ON WHICH IT IS FOUNDED.

Tillage has three objects: 1st, the raising of plants, whose seeds, stems or roots may be necessary or useful to many and the amin at he em-

plays ; 2d, the improvement of the soil, by laying! it open to those atmospheric influences which increase its fertility; and 3d, the destruction of weeds, or plants which rise spontaneously, and ed ploughings. This appears, as well from the [level or ridge ploughing,] which is to be preare either altogether unfit, or fit only in a small precepts of Cato, as from the opinion of Colu- ferred? degree, for the nutrition of men and cattle, and mella, that " tillage, which does not leave the which, if left to themselves, would stifle or starve earth in a state of dust, and render the use of the intended crop.

evident that the surface of the earth must be still further, and believe that frequent plough- whatever be the culture, should be made to take broken and divided into small parts, so that in ings enable as to dispense with even the use of this form; because, it nowerfully tends to drain the first instance it may furnish a bed and cover- manures. This, however, is extravagant; it is the soil and carry off from the roots of the growing for the seeds sown, enable them to push certain that the plough can do much, but it is ing plants, that superfluous water which, left to their roots into the soil, and draw from it a por-equally certain that there is much it cannot do.

tion of their subsistence.

ployed. Fossile, animal and vegetable manures, ment the expense of these transcends the profit, would but increase that want of cohesion, which as well by their mechanical action as by their pounded limestone and water, (as in the culture logs preparatory to a wheat crop, we conclude, these two extremes] ought, in a dry climate, to mer is to be preferred; but in farming, the great-ridged and furrowed, and one cross ploughing particularly to such of these as has given occa-

relation to a division and improvement of the

soil and the destruction of weeds?

The more scientific opinion is in favor of fall ploughing; because to the action of air and moisshould never be omitted; because on those the action of frost is greater, and because one ticable; and the shade of a horse hued crop ploughing of this kind may save two in the is perhaps, in itself, of more importance to that spring, when time is every thing.(1) In this operation, however, we must not forget to ridge, as well as plough; and care must be taken, that our furrows have sufficient declination to carry off surplus water. With these precautions, your will be nearly if not altogether complete. (2)

In dry and warm soils, these advantages are less, but still, the time gained for spring work is a sufficient inducement to a practice that economises, not merely our labor, but the productive the sub soil, which is always infertile, until it re-

water checks and prevents it.

2d. What number of ploughings, preparatory to a crop, is necessary or proper?

The Romans were in the practice of multiplie intended crop.

In fulfilling either or all of these objects, it is ed." Tull, and his disciples, carry the doctrine opinion, all ground in which clay predominates,

To accomplish this leading intention, (the di- for its object, is a subject of calculation : its lavision of the soil,) various means have been em- bors must be regulated by its end, and the mo- ing is to be preferred, because ridging such soils it may be improvement, but it ceases to be farm- is their natural defect. chemical properties, promote it; as do sand. ling .- When, therefore, we hear of six ploughof rice) but it is to the spade and the plough we either that the plough will soon stop, or that it be cultivated in the flat way, that it may the betmust look for that degree of efficiency, without belongs to one of the Dilettanti, who thinks it ter retain moisture; and in a wet climate, in which, the earth would have remained a desert, below him to count the cost. In our own prac- ridges, that it may the sooner become dry. or would become one. Of these, where the scale tice we find that spring crops (of the cereal graof labor is small, (as in garden culture) the for- mia) succeed hest on one fall ploughing, well er expedition of the latter gives it a decided ad-in the spring; and that spring and summer vantage. Our remarks, therefore, will be con- crops, of the leguminous and cruciform families, fined to the operations of this instrument, and form the best possible preparation for winter crops, and render unnecessary more than one sion to differences in opinion among practical additional ploughing. After all, any proper answer to this question must necessarily be 1st. At what season of the year, (spring sum- qualified by considerations of soil, weather, mer, or fall,) is ploughing best performed, in season, crop and calture; influences which cannot but exist in all cases, and over which we have no control. Wheat, for instance, requires more preparatory ploughing than rye, and rye ture, it adds that of frost, whose septic or di-tillage than calcarious earth, and calcarious led to the following statistical facts: viding quality is second only to that of the earth more than sand. Wet or dry weather plough itself. In clay suils, this preparation makes frequent ploughing (according to circumstances) either useful, injurious or imprac-States, was (85,649,328 lbs.) more than eightywhich succeeds, than would be the following of a whole summer.

3d. What depth of ploughing is most to be recommended?

This question, though less complicated than clay ground will be ready early in the spring for the last, requires, like it, an answer qualified by another ploughing; and the decomposition of circumstances. Tap rooted plants require deepthe sod and weeds, (turned down in the fall) er tillage than others; fall-ploughings may be deeper than those of spring, and spring than is the produce of only sixty-five square miles, those of summer. If the vegetable soil be deep, which is less than the 440th part of South Carodeep ploughing will not injure it; but if it be lina, and less than two-thirds of the District of shallow, such ploughings will bring up part of Columbia. powers of the earth also, by sounest enabling us ceive new principles from the atmosphere. The maximum export of tobacco was 12,428 to shade the soil with a growing crop.(3)

"They who pretend," says Arthur Young, hogsheads, in 1791. A hogshead is about one vegetation as the upper, maintain a paradux, re-will yield one hogshead. The export, therefore, futed both by reason and experience?

deep ploughing is indispensable; and in this, as on an average, more than 659 square miles, viz: in many other cases, we must submit to pre- more than three times the quantity of land sent inconvenience for the advantage of future which furnished the above export. benefit. - But even here, it is laid down as a rule, that "in proportion as you deepen your plough-

" From six to eight inches, may be taken as the ordinary depth of sufficient ploughing,"(5)

And 4th. Of the different modes of ploughing,

This question admits no absolute answer-We have already suggested the use of the latter itself, would seriously affect both the quality and Agricultural, like other husiness having profit the quantity of their products.(6) In sandy, porous, dry soils, on the other hand, level plough-

A loamy soil, [which is a medium between

5 Idem.

6 It has been objected to ridge ploughing, that it accumulates the good soil on the crowns of ridges, and impoverishes the sides and furrows. These objections are obviated by narrow and low ridges, which alternate every crop, with the furrows.

### FROM THE NATIONAL INTELLIGENCER. STATISTICAL .-- COTTON, RICE, TO-BACCO, SUGAR, WINE.

The National Intelligencer informs us that in New-York 133 bushels of Indian corn have been gathered this year from one acre; and 714 more than oats. Clay ground demands more bushels of potatoes from one acre. This has

COLTON.

In 1817 the export of cotton from the United five million. One acre yields, at a moderate estimate, 250 lbs. of clean cotton. This whole export, therefore, is the product of only 535 square miles: this is less than the 108th part of Georgia, and less than the 520th part of the cotton regions of the United States.

The maximum export of rice was 73,329 tierces, (in 1790,) or (43,997,400lbs.) nearly fortyfour million pounds. This, on an average crop,

#### TOBACCO.

that the under layer of earth is as proper for thousand weight; and, on average, one acre was the product of about 176 square miles, Where, however, it becomes part of your object to increase the depth of the surface soil. Each of the 97 counties of that state contains, which is less than the 363d part of Virginia.

Such is, generally, the fertility of the equi-

<sup>1</sup> The Marsh bean grows best on a fall ploughing ; and oats, well harrowed, will (on such ploughing) give a good crop without other culture.

2 Without water there is no decomposition, and such

<sup>3</sup> Those who have any doubts about the importance of shade, have but to took at the effects of a brush heap, or other collection of small bodies, admitting air, heat and moisture, during the spring or summer months Under such collections he will find a much more vigorous vegetation, than in the uncovered parts of the field: The cause of this effect is, that the brush ings, you increase the necessity for manures."(4) noxial regions of America, that all the sugar prevents evaporation.

<sup>4</sup> Young.

consumed in France, estimated at twenty mil-1 of proving that the loftiest policy is in accur-jeask to 40 dollars. Of the other wines you mention lion kilogrames, tabout fifty-four million | dance with moderation and humanity." pounds.) inay be produced on an extent of thirtieth part of the smallest department of United Sates. France.

About 1,600,000 arpens, or 1,850,400 acres, are in France employed in the culture of the vine. The value of the annual product is about 100,800,000 dollars, at about twenty cents a gallon. In 1790, Bordeaux alone exported more than fifteen million gallons of wine. The 1,600,000 arpens are less than one 80th part of France, and less than one 20th part of Pennsylvania.

The value of the annual produce of these five interesting articles, may be thus estimated :

Cotton, at 15 cents. \$12,847,399 Rice, \$20 a tierce, 1,466,580 6,745,680 Tobaccco, \$60 a hogshead, Wine, 20 cents a gallon, Sugar consumed in France, at 10 cents a pound, 5,400,000

\$127,259,359

For the product of these articles the following quantities of land are cultivated, viz:

	Square mile
For cotton	555
rice	65
tobaeco	176
sugar	63
wine	2110
	2949

This is a little less than 3-4ths of the state of Connecticut.

The authority for cotton, rice, and tobacco, is culture of those articles.

For sugar I have the authority of Humboldt's Essai Politique.

For winc I depend on Chaptal: his "Treaof the vine, and the art of making wine, brandy, spirits of wine and vinegars, simple and compound," is a truly classic work, in which he had the aid of Rozier, Parmentier, and Dussieux. It contains all that the chymist, or botanist, or vine cultivator, or enlightened statesman can reasonably ask or wish to know. It is in two octavo volumes of about 500 pages each. with 21 plates.

This admirable treatise should be translated for the use of our fellow citizens who occupy our wine-yielding regions. For, in a few years the United States will produce wine for their domestic consumption and exportation.

A revolution of our planet on its axis would The rest would be as a desert. Pauperism in

The most active mind has not yet conceived seven square leagues, which is not equal to one an adequate idea of the vast resources of the ducing, one year with another, five hogsheads of six-

Washington City.

FROM THE NATIONAL INTELLIGENCER.

On the Grape Vine, with its wines, brandies, salt, and dried fruits.

No. III.

The object of these papers is to excite to objects of agriculture, manufacture, commerce, and consumption of the utmost importance to the prosperity of The forms and niceties of literary composition will yield their claim to attention to the more solid substance of the pertinent information and suggestions.

In the course of the consideration of this subject. several letters from living friends to our prosperity have been brought together. The remainder of this 100,800,000 paper will be appropriated to the publication of one of those letters, of very recent date, from a native of the United States, of the best opportunities, in Bordeaux, the emporium of that part of the kingdom of France which gives to us the largest quantities of the most esteemed wines and brandies which enter into the soil and exposition natural to it. For this reason, our regular consumption. It here follows, in its own grounds, composed of sand, gravel stones, and rotten clear and instructive terms:

"I have been favored by your letter of the 24th. Chaptal, sur la Culture de Vine, l'Abbe Rozies's memoire sur le mellieure maniere de faire et gouverner les Vins, and Jullien's Topographie de tout les Vignobles, are the authors the most in repute in France on the Vine and on Wine. The first and last can be dens or bakes, is essentially prejudicial to the quality had in Philadelphia; and if Rozier's memoir is not to of the wine. be found, as it is an old book, you can doubtless find, at your French book stores, his Dictionary of Agriculture, 5 vols. in 40, which, under the head of Vine,

will give you all the information you desire.
"The district which produces the best wine, about Bordeaux, is Medoc. That country is divided into upper and lower Medoc, lying between the Gironde Seybert's Statistical Annals, and the personal and Garonne and the Bay of Biscay. It is much such information of gentlemen of experience in the a country, as to hill and dale, or general surface, as that between Philadelphia and Trenton, of a sandy, sandy-loam, and gravelly soil, with some few exceptions of small patches. About seven leagues from north to south, and three from east to west, of this district, is occupied with vineyards, which produce tise, theoretical and practical, on the culture the best wine, whose expositions are from east to south.

> "In this district, Lafitte, Chateau Margaux, Latour, Lenville, La Rose, Braune Mouton and St Julien, with various other qualities of Claret, are produced, suffered to grow above three feet from the ground.

and Grave wines, lie from the skirts of the city south the wine." about four leagues, presenting much the same swell

l bave no knowledge

"It has been stated that two millions of acres are ty-three gallons to the acre; which, at the moderate price of fifty francs, or ten dollars, the hogshead, gives one hundred millions of dollars. This produce is immense: and, what renders it still more valuable, is, that it does not lessen the quantity of other necessary productions, such as wheat, &c.; for where the vine generally grows in France, nothing else will grow: such is the poverty of the soil generally employed for vines.

"They have the wild vine in France. I have seen large quantities of it near Bayonne, and round the foot of the Pyrences, up to Pau. The inhabitants make beautiful hedges of it, and I have been assured by a distinguished naturalist, Mr. Pennieres, who is now in the Alabama territory, that some of the excellent grapes of France have been produced from the wild vine, after some years of careful cultivation. He is now engaged in inoculating our wild vines with those of France, from which he expects the most favorable results

"I shall conclude these hasty observations by an extract from Rozier :

"The vine is a plant whose transpiration and suction is abundant and vehement, which sufficiently indicates rocks, are excellent for its cultivation.

'A sandy soil produces a fine pure wine. The gravetly and stony a delicate wine. Rotten and broken rocks a fumy generous wine, of a superior quality.

'A rich, strong, compact, cold or humid soil, which is pressed down by the rains, and which the sun har-

'The most advantageous exposition for the vine, is that of a gentle slope, or side of a hill, facing east and south, on which the rays of the sun continue the longest time.

'Hills, in the neighborhood of the ocean and rivers. aught to be preferred to all others. The lower parts of these hills are not so favorable to the vine as the upper, and neither are equal to the middle region, the soil being the same.

".All trees are unfriendly to the vine, as much from their roots as their shade. All who cultivate the vine, should remember this precept of Virgil: '. Iper-tos Bacchus amat colles'—The vine flourishes in the open unshaded hills.'

'In a word, the vine ought never to be planted in soils that can produce gram, &c. because it wants nothing but heat, and thrives best in the poorest ground. This will appear ridiculous to those who look for quantity: but, as to the quality of the wine, which bring from \$60 the ton, of 4 hogsheads, (or and with the laws of vegetation 252 gallons,) to \$600, according to the estimation and with experience. I must be understood to speak they are held in. The vines in this district are not lore of countries only whose temperatures are favoraiffered to grow above three feet from the ground. ble to the success of vineyards. We must except "Hautbriant is produced on a single estate of that those in more northern latitudes. These general prename, lying in La Grave, about a league south of Bor-cepts admit of no exceptions: They will be acknow-deaux. The soil is sandy and gravelly; so much so ledged by all those who, with good faith, and free of that you would hardly suppose it capable of vegeta- prejudices, have studied the cultivation of the vinc. If other modes and precepts are followed, we cannot "The districts which produce Sauterne, Barsac answer for the age of the vine, or for the quality of

These views of the locality, soils, and exposures of of surface as that part of New Jersey through which the fine Bordeauc wines, such as the white, or Sauthe mail runs between Trenton and Brunswick. The terne, and vin de Grave, and the red or clarets, such present to the eye of an observer, at the distance of a few thousand miles, a few spots or the northern part of it,) Grave, denotes its soil Gra. the present, on the public mind, with a firm confispecks (China or Holland) fully cultivated. vier-Gravel. I have seen hundreds of acres of vines dence in their due impression, accompanied by the rein Grave, growing in pebbles, from the size of a bean marks that the difference between our temperatures, and nutmeg to that of an egg, without the least ves-in our present wooded condition, and that of the south-England, now so extensive and so dangerous, is tige of earth, crackling under foot, and filling one's west of France, may be safely taken at eleven or fulfilling the prophecies of Goldsmith's Desert-sloes. Of the white wines of Bordeaux, Scuterne, twelve degrees; and that the progress of clearing Barsac, and Corbonnieux are of the first quality; but lands and draining swamps will reduce that differ-"Political economy, [says Jean Baptiste Says] is founded on statistical knowledge, or (what is the same thing) history;" and that the American confederacy will have the glory "the American confederacy will

the United States, in latitudes nine or ten degrees farther south. The pride of all Europe is certainly the wines of the following places: Champagne, in fatitude 49° N. in Europe equal to 39.1 to 400 in U. S. 38 to 39

Burgundy, Old flock wine, 39 to 49 Bordeaux, Claret, and 3 45 65 to 36 Sauterne, Best brandy of the wine grape: Bor- 45 35 to 36⋅ deaux and Cogniac. ; The wine district of Europe for the finest wines from Ma- 367 to 49 274 to 39 or 40 laga and Xeres to

Epernay, in Champagne, A Friend to the National Industry. Philadelphia, Nov. 5, 1819.

#### CONSTITUTION.

OR ARTICLES OF ASSOCIATION OF THE

### New-York County Society,

Manufactures.

Art. 1. The objects of this Society, are the promotion of Agricultural economy, and the encouragement of Domestic Manufactures.

Art. 2. Every person on becoming a member, shall subscribe these articles, and pay to Hemlock, and their medicinal qualities, we find in the Treasurer of this society, the sum of not an english work, "Thornton's Family Medical," less than one dollar, on the first Monday in June, in each year, for the use of the society, as long as he continues a member. Any mem- . Iquaticum. - The flemlock WAPBR-DROPWORT, Enber shall have liberty to withdraw, on giving athe Crocata; Water Henlock, Cicuta Virosa, and written notice to the Recording Secretary, and the Common Handock, Canium Maculatum.—In that it often grows in large quantities, that we might paying all arrears.

Art. 3. The officers of this Society, shall

Secretary

Art. 4. The general administration of the affair of the Society, shall be conducted by a Buard of Managers, consisting of the officers of should be the means of saving a single one of those chosen by the Society; seven of whom shall ple satisfaction, for having occupied so much of the ere, a short, partial involucre, and a fruit which form a quorum; the President ex officio, to be chairman of the Board of Managers, or, in his absence, the next officer of the Society. The time and place of the annual exhibition, of which sufficient notice shall be published; designate the objects, and fix the value of each premium; and perform all other acts, which they may think proper and necessary to promote the objects of the Society. Actual members of the Society, to be admitted to the meetings of the Board of Managers, with the right of discus-

Art., 5. Any by-laws framed by the Board of Managers, shall be submitted to the Society, at their next meeting; and shall only continue in force until that period, unless adopted by the

Society.

Mrt. 6. The officers of this Society, and the Board of Managers, shall be chosen forthwith by ballot and hereafter in like manner, on the first Monday in May. No officer, or member, of this Society, to receive any salary, or reward, for discharging his official duty.

Art. 7. In case any of the officers, of this Society, shall die, or resign, the vacancy to be filled by the Board of Managers, until the annual election in May. The Society shall have power to make alterations in or additions to this constitution; which, when adopted shall form part thereof.

New-Tork, May 9th, 1819.

### :0:6 HEMLOCK.

In page 253, Number 32.-We published a note from Mr Feild, of Petersburg, Va. desiring that in jority of instances, have been found, more or quiry might be made through the medium of this less of a deleterious kind. The Cicuta virosa paper, as to the deleter ous qualities of the Hemlock of Europe is a highly poisonous plant, possesson the constitution of the horse, and stating his ap-ing such formidable activity that its internal preliensions, that a favorite animal had been poisoned use is hardly attempted in medicine. An American by eating it in his hay.

We promised then to investigate the subject, and way of the Farmer to make such researches, and to promulgate the result, but because the very generous and distinguished encouragement, which has been given to this Journal, induces us to apprehend that For the promotion of Agriculture and Domestic ligher Lopes and more flattering opinions, are enter-past, several instances have been brought to Ammufactures.

Ammufactures. with all the industry he can use, in moments of leisure from paramount public duties.

Running our eye hastily over the works in our gricultural collection, which were most likely to throw all necessary light on the various species of an engraving of four different kinds, all of which are

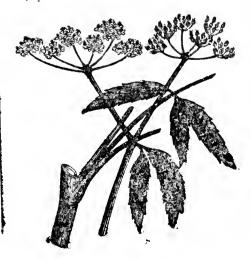
represented to be deadly poisonous.

The FINE-LEAVED WATER-HENLOGE, Phellandrium splendid . Imerican work, now publishing in Boston, Maculatum, and of what the author, professor Bigeconsist of a President, two Vice Presidents, a low, calls the Cicura Macubara, or AMERICAN Treasurer, a Recording and Corresponding HEMLOCK. This we have little doubt is the plant Mr. Feild's horse.

If by thus exhibiting to our readers, the physiog nomy and character of this dangerous intruder, we the Ecciety, and twenty-five members, to be noble animals from a similar fate; we shall have am-

American Parmer.

As to the eradication of this and other noxious weeds that spring up, especially in new made mealows on low lands, the most effectual remedy is no Board of Managers shall have power to traine doubt to be found in the plough, that is by cultivation; by-laws for the regulation of the Society; admit and we have been satisfactorily assured, that Brine ordinary and honorary members: regulate the will destroy elder, and other pests, which have been ound, by all other means, incradicable.



CICUTA MASSELLAS CA.

### AMERICAN HEMLOCK.

It is a rule sanctioned by the observations of medical botanists, that umbelliferous plants, which grow in or about the water, are of a poisonous nature. This rule will generally be found correct, although it has exceptions. As far as aquatic plants of this natural order have been examined, their properties, in a great mause is hardly attempted in medicine. An American species, the Cicuta maculata, the subject in fact we feel it our bounden duty to answer to in lof this article, is very closely allied in its boquiries of this sort; not merely because it is in the tanical habit to the European plant, and was equally deserving of suspicion from its appearance, although the public were not generally. aware of its true character. Within a few years past, several instances have been brought to than it will be possible for him to realise and justify being incautiously eaten by children. It is therefore necessary that the species should be suitably designated, that a source of so much danger may be known and avoided.

Tho Cicuta maculata, to which I have appiled: the name of American Hemlock, not baving heard any common appellation except that of Snakeweed, inhabits wet meadows and bankers from the northern to the southern limits of the United States, flowering in July and August. It is so frequently cut with hay, among which expect to see its deleterious properties operatwe find elegant coloured engravings of the Conjum ling on domestic cattle, were it not that their bodies are probably less susceptible of its poison than ours. The European Cicuta, above menmost prevalent, and the one which killed or poisoned tioned, is highly noxious to man, and to some domestic animals, yet goats and sheep eat it

with impunity.

The genus Cicuta differs from other genera of umbillate plants in having no general involve is nearly orbicular, compressed and furrowed.\*

The species maculata has a fascicled root and wlong leaves with mucrouate serratures.

The class and orders are as in the last article. This plant is so remarkable for the form of its cout, that had not the name of macutata been confirmed to me by the hest authorities, I should have thought that of fasciculata to be greatly preferable. This root is composed of a number it large, oblong, fleshy tubers, diverging from the base of the stem, and frequently being found. of the size and length of the finger. The ront is perennial, and has a strong, penetrating smell and taste. In various parts of the bark it contains distinct cells or cavities, which are filled with a yellowish resmous juice. The plant is from three to six feet high. Its stem is smooth, branched at top, hollow, jointed, striated, and commonly of a purple colour, except when the plant grows in the shade, in which case it is green. The leaves are compound, the largest

<sup>.</sup> This description of the fruit agrees with the preent species and also with Cicuta bulbifera, a smaller species not uncommon about Boston. The Cicuta. virosa of Europe I have never seed,

being about three times pinnate, the uppermost to be the Cicuta maculita of Linnwus. In the only ternate. Most of the petioles are furnish same article, is a letter from Dr. Muhlenberg, ed with long obtase stipules, which clasp the stating that he had received specimens from Sastem with their base. Leafets oblong acumin-vannah and from West Pennsylvania, where it ate, serrate, the serratures very acute or mu-had destroyed several persons, who ate it by cronated. The veins end in the notches, and inistake for angelica. All the specimens were time open, in the beginning of the month, you may not at the points of the secratures. The flowers similar, so that there could be no doubt of the complete any work recommended to be done in Nor grow in umbels of a middling size, without applentity of the plant. In the same letter, Dr. general involucre. The partial umbels are fur-Muhlenberg remarks, that he had reason to be-work forwarded, carry dung into the various parts of nished with involucres of very short, narrow lieve that the poisonous quality of the root is the kitchen garden, spread it, and trench the ground; acute leafets. The distinctness or separation litered by cultivation in a dry soil. of these umbels characterizes this plant at a distance among other plants of its kind, whose the poismous character of the plant under conumbles are more crowded. Calyx of five very sideration. They may also serve to shew the separating into two semicircular seeds.

pressed, emits from its divided extremities a red in repeated instances, which have never mable. The decoction of the root affords a pearl coloured fluid, not very sousible to the insuspicious of its qualities. tests of mucus, facula, tannin or extractive.

In August 1814, an account was sent to Bos. fon hy Dr. Stockbridge of Bath (Maine) of the effect produced on three boys by eating a poisonous root, which they had dug up, supposing it to belong to the plant called " Life of man." One of them was seized with violent convulsions, frothed at the mouth, and died in an hour and a half. The other two were affected with vomiting, stuper, dilatation of the popil, great paleness and universal distress; which symptoms disappeared in one in twenty four, and in the other in thirty six hours. It was supposed spontaneous tendency to vomit, occasioned by that the first boy had swallowed about a drachm the poison itself, this should be assisted by meof the root, and the others about half that quantity. A specimen of the plant was sent to me finger, or with a feather. Of emetics, the saled or tainted fruit. at the same time with the account, and proved phate of zinc is to be preferred, on account of to be the Cicuta maculata. Dr. Stockbridge's its speedy operation. Castor oil or infusion of from the garden. letter, which was published in the New En senna, should be given as soon as vomiting has gland Journal, contains two other cases of the effect of this root, in one of which it proved fatal.

an article appeared in the New York Medical ministered. In violent cases, bloodletting should spread it on the borders for your espalier and wall Repeatory, containing an account by Dr. Ely be resorted to. As most narcotic poisons acr of Dateness county, of the effects of an un-by destroying the functions of the brain, respihellebore. Three small boys, who had gone in-lialluence of that organ; Mr. Brodie is of opiadue up and exten another root by mistake. hy keeping up artificial respiration, after death

Two of them died in convulsions in about an has apparently taken place.

Towards the latter end of this, or the b hour after they had swallowed it. They die charged much blood and from from the mouth and nose; their eyes were lixed, with the puand nose; their eyes were lixed, with the pupils dilated, and a rapid motion of the eye lids.

Egopodium folia lanceolatis, acuminatis, serratis,
fine third boy vomited, and recovered. When
outside the property of the pointed outside the property of the services of the pointed outside the property of the services of the property of the property of the services of the property o the spot where they had dug the root, and where 75, f. 1. a considerable quentity of it remained. Same of the root was planted by Dr. Mitchell in the

The foregoing facts are sufficient to establish &c. The fleshy root of the Cicuta maculata, when cases, like those above described, have occur-unnecessary delay at that season.

> analogous to those of the true hemlock, as far as they were observed, but more powerful. A moved, when a favourable change takes place, and laid primary symptom, which attended a large dose, on again, when found necessary. was nausea and vomiting.

primarily consist in a thorough evacuation of kept till spring. the stomach. As there commonly exists al taken place. The vegetable acids, such as ful. Strong coffee and tea are the best anti-spring. Shortly after the publication of the above facts, dotes for the stupor, and should be promptly au-

#### BOTANICAL REFERENCES.

Cicuta meculata. LINNEUS Sp. pl.-Punsa, 1 195 .taken to the place the next day, he pointed out cumini odore et sapore? Plukener, Alm. 31, Phyt. t. let it be gradually done

#### MEDICAL REFERENCES,

KITCHEN GARDEN, FOR DECEMBER. (From the American Practical Gardner, published by)

Fielding Lucas, Jr.) [Continued from No. 34, page 270.] General Remarks.

Should the weather prove mild, and the ground convember, which has, unavoidably been omitted,

laying it in high ridges, to be improved by the frost,

Should the ground be so frozen as to prevent its being trenched, carry in manure, and lay it in a suitable minute segments. Petals five, white, obovate importance of accurate descriptions and faithful place, to have it at hand, as soon as the ground can be worked. Clean all the seeds, which remain in with inflected points. Fruit nearly orbicular, engravings of noxious vegetables, which may their pods, or capsules, put them up carefully and lacompressed, ten furrowed, crowned at top, and enable even unlearned observers to distinguish bet them. Prepare all tools which may be wanted in them at sight. There can be little doubt that spring, and take all possible care to prevent every

Southern States. In such of the southern states, as have but very viscid yellowish juice of a strong penetratine met the public eye. Perhaps also from an ignor-slight frosts during the winter, you may sow on warm. taste. This juice dissolves in alcohol, from ance of the real cause of the symptoms, the pro-borders, for early crops, small quantities of carrots, which it is precipitated by water. When dis per remedies have been neglected. The plant parsneps, onions, beets, radish, spinach, parsley, &c.; tilled, a thick volatile oil collects in the receiver is extremely common in many parts of the earth up late celery and cardoons, tie up endire for in the form of a film upon the surface of the United States, and I believe its true character blanching, and plant out in rows, up to their heads, in the form of a film upon the surface of the United States, and I believe its true character such cabbages, as are intended for seed. Take care water. The remainder of the juice yields a re- is not generally suspected. A very respectable to set each kind apart by itself, and at a considerable sin of a dark orange colour, fusible and inflam-physician informed me, that it was used in his distance from any other; for if contiguous, the farina vicinity as a gargle for sore throats, by people of the one would impregnate the stigmas of the other, and neither kind would retain its original purity.

Since the discovery of its narcotic properties, the Cicuta has been used in small doses, as a substitute for the contum, by one or two practitioners in this place. Its effects were very in the groun I the preceding months; as they advance titioners in this place. Its effects were very in growth, cover them at night and in severe weather, with long dry straw, which can be conveniently re-

Plant out garlick rocambole, and shallots, likewise The treatment of persons poisoned by this seeds of rhubarb, skirrets, alisanders, dtll, and such lerge onions for seed; sow, as directed in March, the plant, as in the case of other narcoties, should other kinds of seed, as do not vegetate so freely, when

### FRUIT GARDEN.

General Remarks.

Keep all the apartments, where your winter fruit is stored, free from frost. Examine and pick your chanical means, by irritating the throat with the fruit once in ten or twelve days, and remove all decay-

Take all moss from off your trees, and remove it

Fasten all the loose branches to the walls or espaliers. Repair all decayed espaliers; prepare stakes and other materials for this work, that it may be perform lemon juice or vinegar, have a neutralizing in-jed, as soon as the frost will admit, and attend to every fluence on the narcotic, and are therefore use-other kind of business, which will forward you in the

> Carry well rotted dung, rich earth or compost, and Pruning Apples and Pears.

Apples and pears being hardy, may now be pruned. Gooseberries and currants, being also hardy plants, krown poisonous rout, supposed to be the white ration being suspended, because it is under the may be pruned in any of the winter months; but if it is requisite to plant cuttings, this pruning ought to to a meadow in search of sweet flag root, had on, that in some cases, life might be preserved be done, when the ground is free from frost, so as to

Prepare for Forcing Fruit Trees. Towards the latter end of this, or the beginning of next month, put the lights on your fire heat forcing frames, such as described in January fruit garden, page 144, having previously pruned and nailed up the trees in due order.

The trees should not too suddenly experience the transition from extreme cold, to vegetating heat, but

Southern States.

In such of the southern states, as have not severe frost in winter, you may now prune apples, pears, &c. New York Hospital garden, where it vegetated Arm Engl. Journal, in 54. Mittentil, Ely and orange species. All the above, except the orange and produced flowers and fruit. It turned out Mculenbero, Med. Repository, xvii, 303.

### Miscellaneous Selections.

FROM THE SPECTATOR.

-- Si verbo oudacia detur. Non metuam magni dixisse palatia cæli. Ovid. Met. l. I. v. 175.

This place, the brightest mansion of the sky, I'll call the palace of the Deity.

"SIR,-I considered in my two last letters that awful and tremendous subject, the ubiquity or omnipresence of the Divine Being. I have shewn that he is equally present in all places throughout the whole extent of infinite space. This doctrine is so agreeable to reason, that we meet with it in the writings of the enlightened heathens, as I might shew at large, were it not already done by other hands. But though the Deity be thus essentially present through all the immensity of space, there is one part of it in which he discovers himself in a most transcendent and visible perfect? glory. This is that place which is marked out in Scripture under the different appellations of paradise, the third heaven, the throne of God, and the habitation injustence and omniscience have so signally everted of his glory. It is here where the glorified body of themselves, hecause that they are able to produce a of his given. It is net where all the celestial hierar-scene infinitely more great and glorious than what we discovers himself in a more glorious manner among chies, and the innumerable hosts of angels, are represented by the celestial hierar-scene infinitely more great and glorious than what we discovers himself in a more glorious manner among chies, and the innumerable hosts of angels, are represented by the celestial hierar-scene infinitely more great and glorious than what we discovers himself in a more glorious manner among chies, and the innumerable hosts of angels, are represented by the celestial hierar-scene infinitely more great and glorious than what we discovers himself in a more glorious manner among chies, and the innumerable hosts of angels, are represented by the celestial hierar-scene infinitely more great and glorious than what we discovers himself in a more glorious manner among chies, and the innumerable hosts of angels, are represented by the celestial hierar-scene infinitely more great and glorious than what we discovers himself in a more glorious manner among the contraction of the present to the mind of man and a second property of the celestial hierar-scene infinitely more great and glorious than what we discovers himself in a more glorious manner among the contraction of the celestial hierar-scene infinitely more great and glorious than which we have a consideration of the celestial hierar-scene infinitely more great and glorious than which we have a consideration of the celestial hierar-scene infinitely more great and glorious than which we have a consideration of the celestial hierar-scene infinitely more great and glorious than which we have a consideration of the celestial hierar-scene infinitely more great and glorious than which we have a consideration of the celestial hierar-scene infinitely more great and glorious than the celestial hierar-scene infinitely more great and glorious than the celestial hierar-scene infinitely more great and glorious than the celestial hierar-scene chies, and the innumerable hosts of angels, are represented as perpetually surrounding the seat of God consummation of all things these outward apartments with hallelujahs and hymns of praise. This is that presence of God which some of the divines call his glorious, and others his majestic, presence. He is indeed rious place of which I am here speaking, and by that thoughts and perceptions, and become one with the as essentially present in all other places as in this; means made a proper habitation for beings who are but it is here where he resides in a sensible magnificexempt from mortality, and cleared of their impercence, and in the midst of all those splendors which can affect the imagination of created beings.

"It is very remarkable, that this opinion of God Al nighty's presence in heaven, whether discovered by the light of nature, or by a general tradition from our first parents, prevails among all the nations of the world, whatsoever different notions they entertain of the Godhead. If you look into Homer, the most an gient of the Greek writers, you see the Supreme Power seated in the heavens, and encompassed with inferior deities, among whom the muses are represented as singing incessantly about his throne. Who does not here see the main strokes and ontlines of this great truth we are speaking of? The same doctrine is shadowed out in many other heathen authors, though at the same time, like several other revealed truths, dashed and adulterated with a mixture of fables and human inventions. But to pass over the notions of union, without proper instruments in the body. Why the Greeks and Romans, those more enlightened parts therefore should we exclude the satisfaction of these of the Pagan world, we find there is scarce a people among the late discovered nations who are not trained up in an opinion, that heaven is the habitation of the

divinity whom they worship.

"As in Solomon's temple there was the Sanctum Sanctorum, in which a visible glory appeared among the figures of the cherubims, and into which none but the high-priest himself was permitted to enter, after having made an atonement for the sins of the people; so, if we consider the whole creation as one great temple, there is in it this Holy of Holies, into which the High priest of our salvation entered, and took his place among angels and archangels, after having made a propitiation for the sins of mankind-

"With how much skill must the throne of God be erected? With what glorious designs is that habitation beautified, which is contrived and built by him thing which he had heard in this world, that it was who inspired Hiram with wisdom? How great must be the majesty of that place, where the whole art of creation has been employed, and where God has chosen to shew himself in the most magnificent man-lies concerning any foreign country, where we are ner? What must be the architecture of infinite power sometime or other to make our abode; and as we all under the direction of infinite wisdom? A spirit can- hope to be admitted into this glorious place, it is both not but be transported after an ineffable manner with a laudable and useful curiosity to get what information the sight of those objects which were made to affect we can of it, whilst we make use of revelation for our him by that Being who knows the inward frame of a guide. When these everlasting doors shall be open soul, and how to please and rayish it in all its most to us, we may be sure that the pleasures and beautics

pressions in holy writ: Behold, even to the moon, and ance of the throne of God will rise infinitely beyond The light of the sun, and all the glories of the world entertain ourselves with many other speculations on in which we live, are but as weak and siekly glimths subject, from those several hints which we find merings, or rather darkness itself, in comparison of of it in the Holy Scriptures; as, whether there may those splendors which encompass the throne of God.

"As the glory of this place is transcendent beyond imagination, so probably is the extent of it. There is light behind light, and glory within glory. How far that space may reach, in which God thus appears in perfect majesty, we cannot possibly conceive. Though it is not infinite, it may be indefinite: and, though not immeasurable in itself, it may be so with regard to any created eye or imagination. If he has wide and magnificent for the habitation of mortal and dence in a more especial manner, and displays himself in the fulness of his glory, among an innumera-

"This is certain, that our imaginations cannot be raised too high when we think on a place where omof nature, which are now suited to those beings who places, and possess our minds with a perpetual awe inhabit them, may be taken in and added to that glofections: for so the scripture seems to intimate when sink us into the lowest prostration before him, who is t speaks of "new heavens and a new earth, wherein

dwelleth righteousness."

"I have only considered this glorious place with regard to the sight and imagination, though it is highly probable that our other senses may here likewise enjoy their highest gratifications. There is nothing which more ravishes and transports the soul than harmony; and we have great reason to believe, from the descriptions of this place in Holy Scripture, that this is one of the entertainments of it. And if the soul of man can be so wonderfully affected with those strains of music which human art is capable of producing, how much more will it be raised and elevated by those, in which is exerted the whole power of harmony! The senses are faculties of the human soul, though they cannot be employed, during this our vital faculties, which we find by experience are inlets of great pleasure to the soul, from among those entertainments which are to make up our happiness hereafter? Why should we suppose that our hearing and seeing will not be gratified with those objects which are most agreeable to them, and which they cannot meet with in these lower regions of nature; objects, which neither eye hath seen, nor ear heard, nor can it enter into the heart of man to conceive ? I knew a man in Christ (says St. Paul, speaking of himself,) above fourteen years ago, whether in the body, I cannot tell, or whether out of the body, I cannot tell (God knoweth). such an one caught up to the third heaven. And I knew such a man (whether in the body or out of the body, I cannot tell: God knoweth,) how that he was caught up into paradise, amd heard unspeakble words, which it is not possible for a man to utter. By this is meant, that what he heard was so infinitely different from any impossible to express it in such words as might convey a notion of it to his hearers.

"It is very natural for us to take delight in inquiscoret powers and faculties. It is to this majestic of this place will infinitely transcend our present presence of God we may apply those beautiful exhopes and expectations, and that the glorious appear-

t shineth not: yea, the stars are not pure in his sight. whatever we are able to conceive of it. We might here not be different mansions and apartments of glory to beings of different natures; whether, as they excel one another in perfection, they are not admitted nearer to the throne of the Almighty, and enjoy greater manifestations of his presence; whether there are not solemn times and occasions, when all the multitude of heaven celebrate the presence of their Maker in more extraordinary forms of praise and adoration; as Adam, though he had continued in a state of innocence, would, in the opinion of our divines, have kept holy made these lower regions of matter so inconceivably the Sabhath day in a more particular manner than any other of the seven. These, and the like speculations, perishable beings, how great may we suppose the we may very innocently indulge, so long as we make courts of his house to be, where he makes his resiuse of them to inspire us with a desire of becoming inhabitants of this delightful place.

"I have in this, and in two foregoing letters, treated on the most serious subject that can employ the mind of man, the omnipresence of the Deity. a subject which, if possible, should never depart from our meditations. We have considered the Divine Being as he inhabits infinitude, as he dwells among his works, as he is present to the mind of man, and as he the regions of the blessed. Such a consideration should be kept awake in us at all times, and in all and reverence. It should be interwoven with all our consciousness of our own heing. It is not to be reflected on in the coldness of philosophy, but ought to so astonishingly great, wonderful, and holy."

FROM THE HALIFAX CHRONICLE. The following Paraphrase of the 16th and 17th verses of the 1st chapter of Ruth, was written by the late lovely and lamented Mrs. Charlotte Dexter.

Where'er thou goest, I will go; O'er Egypt's sands or Zembla's snow; Where'er thy weary eyelids close, There will thy CHARLOTTE too repose. Though on the naked earth we lie, While tempests roar along the sky : Still, still, undannted will I be, And find the holiest calm with thee. Those People whom thou call'st thy own, Those only are to CHARLOTTE known; And our great Father, God above With equal warmth we both will love. Where'er thy last expiring breath Is yielded up to ruthless Death. On that same spot will CHARLOTTE die, And in thy tomb will CHARLOTTE lie, The Lord do this and more to me, If more than this part me from thee: As living, but one heart we own, So, dying, we will still be one.

THE CANAL -- AN EXTRACT. -Far in the desert bounds I saw Art's proudest triumph over Nature's law; Where, distant shores and oceans to combine, Her daring hand has traced a liquid line, Uniting lakes, around whose verges rise Mountains, which hide their heads in misty skies; Each bound within such adamantine chain, For ages lash'd its lonely shores in vain; Till, through their barriers, skill and labour led The willing waves a long and level bed. Thus, even in her wildest fastness, man Subdues his step-dame Nature's churlish plan."

### EPITAPH ON A MISER.

Here lies one who for med'cines would not give A little gold, and so his life he lost; I fancy now he'd wish again to live Could be but guess how much his funeral cost.

The editors of the National Intelligencer took the liberty, a few weeks ago, of addressing a letter in the executive officers of the several MR. SKINNER, states in the union, requesting from them information, for public purposes, whether any, and, if any, what amendments had been made to the constitutions of their respective states. prompt and satisfactory answers, viz. from Waryland, Pennsylvania, New-York, New-Jersey, North-Carolina, Ohio, Kentucky, New-Hampshire, Tennessee and Massachnsetts. Fearing that their letters have miscarried, they respectfully request that similar communications may be made to them, as early as convenient, by the executives of the other states.

We learn that the disease, called the Burnt Tongue, which was mentioned a few days ago, has made its appearance among the cattle in some parts of Baltimore county. The following recipe which was published in the Cazette at that time, and which a respectable gentleman informs, is an infallible remedy, we have been requested to reprint:

Dissolve two ounces Copperas and two ounces Alum in a pint of strong Vinegar; swab the mouth and tongue with the solution, unfil the disease is removed; then dissolve Honey and Alom in Vinegar, and use it in the same way to heal the tongue. Fed. Gaz.

Greenwich, Connecticut, this season. gathered.

There were exported from New-Orleans from the first to the 30th September, 1352 hales of cotton: 549 bales went direct to Europe and 808 coastwise. There were shipped in the same time 768 hlds, of Tohacco, all of which. except 281, was shipped to foreign ports.

### NEW-YORK, Nov. 18.

Ocean, Steam-Ship Company .-- A company under this title was incorporated by the Legislature of this state, with a capital of 500,000 dollars, to be employed in the construction and out-fit of vessels to navigate the ocean by steam, and the following gentlemen are named as directors in the charter, viz.

Cadicallader D. Colden | John Whetten Henry Eckford Preserved Fish David Dunham Robert Bogardas Charles Hall

John Graham Elisha Trbbitts Str; hen Whitney James B. Murray

The Directors have elected the Hon. C. D. Colden to be President and James B. Murray Secretary to the company. And, we understand they intend carrying into effect, without delay, the object of their in corporation, by building a steam boat to ply between this port and Liverpool.

### Occasional Extracts.

lishing the following:-

In your paper, page 273, the following remark is made by "A Subscriber." "As the mania for will it not be a profitless crop to the farmer, clover. unless it be found convenient to expend it on the farm? And if so, what would be the most lucrative use that could be made of it, by him who abandons the culture of grain for Ruta Baga."

The most important error, into which the faralmost one entire crop. This is too fatally witentire crop. Those who raise it, contemplate of Jesus Christ. the feeding of it away to stock, and for culinary purposes, for which it is preferable to any other knows nothing of it, and would be as likely to statue somowhat tall and comely with a very sell white turnip as Ruta Baga seed.

" A Subscriber" also says, "and why has Mr. Cobbett, with all his explicitness on other Two distinct crops of water-melons were an animal on one kind of food without a change, produced from the same vines, in a garden at is contrary to the very principles of nature. informed on this subject, let him refer to page 3, of the American Farmer, for the mode of

feeding of Columbus and the Delaware ox. "A Subscriber" also says, "Have you, Mr. Skinner, complied with you promise, to give us Mr. Cobbett's method of earth burning,"—You have answered this in a note, not sufficiently explicit, and I think too delicate. Mr. Cobbett protects his publications by securing the copy. right, any gentleman who wishes to acquire this Year's Residence; and in truth, I think you have already ventured very boldly in infringing his copy-rights. Your's, &c.

A FRIEND.

MR. SKINNER,-Please to inform your correspondent, who signs himself A Subscriber, in the Farmer of the 19th instant, in answer to one of his queries, that Orchard grass is easily propagated by seeding, especially in the spring, and only needs what every other grass seed requires, well prepared ground, free from surface water. It is sown broad cast, near a peck to an acre, when it comes up thick and close, but in a little while, divides into clumps leaving from do. 8575. many intervals. It was observed in the essay alluded to, that it made a great appearance, but did not answer to it in the weight of the crop.

That it is not suited to the bringing in of |TON, upland, 18 to 20 cts.

clover; not giving place to it, and out lasting it. But this office is well performed by timothy, which sown in any of the fall months, will Dear Sir .- You will oblige a friend by pub. afford a mowable crop the next summer, and having clover sown over it in the spring, will leasily admit its growth, joins in and swells the following crops, with increase of weight, and They have received from the following states the culture of Ruta Baga prevails so generally, in dry ground gradually resigns its place to the

Baltimore Nov. 24th, 1819.

MR. SKINNER,—It being the usual custom of the Roman Governors, to advise the Senate and people of such material things, as happened in mers of Maryland have fallen, has been to make their respective provinces, Publicus Sentulus, being pro-consul in the days of Tiberius Cæsar, nessed in the tobacco district. It never was the Emperor, wrote the following epistle to the the design, that the "Ruta Baga" should be an Senate concerning the description of the person

"CONSRIPT FATHERS.

"There appeared in these our days a man of vegetable. Let "A Subscriber" try a pound of great virtue, named Jesus Christ, who is yet this seed properly thinned, and he will think so; living among us, and of the Gentiles is accepted but let him be cautious of whom he buys his seed, for a prophet of truth, but his own disciples for there is many a seedsman, who can talk of call him the Son of God. He raiseth the dead, Ruta Baga, "in this country or Europe," who and cureth all manner of diseases. A man, of reverend countenance, such as the beholders may both love and fear; his hair of the colour of a filbert fully ripe, plain to his ears, whence points, not informed us what quantity of Ruta downward it is more orient of colour, some-Baga, and the length of time required, without what curling and waving about his shoulders; the assistance of grain, to render a bullock of in the midst of his head, is a seam or partiauy given weight fit for the butcher." To feed too of his head after the manner of the Nazarites; his forehead plain and delicate, his face without spot or wrinkle, beautified with a The Although I venture to assert, that the Ruta Baga comely red; his nose and mouth exactly formsecond crop set about the time the first was is preferable to any vegetable I ever did eat, ed, his beard thick, the colour of his hair; vet I should be very reluctant to live on it, or not of any great length, but forked; his look any other one viand for a twelvemonth. But if innocent, his eyes grey, clear and quick-in "A Subscriber" wishes to be more particularly reproving, terrible-in admonishing, courteous -in speaking, very modest and wise-in proportion of body, well shaped—none have seen him laugh; many have seen him weep—a man for his singular beauty, surpassing the children of men."

### The Farmer.

BALTIMORE, FRIDAY, DECEMBER 3, 1819.

THE POSTMASTERS, in the United States, at information, may obtain it by purchasing the whose Offices, even a single number of the American Farmer remains uncalled for-are earnestly requested to send it back to the Editor. The recovery of the papers not taken up, if any, is the more important, as in every case of subscription, a complete file is demanded-each individual number, therefore, has its intrinsic worth to the Editor.

> Present Prices of Country Produce in th's Market. Actual sales of Wheat-WHITE, S1 14-RED, S1 11 to \$1 122-Corn, 58 to 60 cts.-RYE, 50 to 55-OATS, 45 to 48—Har, per ton S17 to 18—STRAW, S11—Sales of Calvert County Tobacco, has been made the present week, at S10\_50—A. Arunde, do. S11— Crop. \$8 50-Virginia Tohacco, no sales that we have heard of.—Susquehana Herrings, No. 1, \$275-Do. No. 2, \$2 45-Shab, No. 1, \$550-Do. No. 2, \$5-WHISKEY, from the wagons, 33 to 39 cts - FLOUR,

> North Carolina Stoples—Tar, \$2.75, sales—Tur-PENTINE, \$2 to \$2.25, dull—Do. Spirits, 43 cts. sales —Rosin, \$2, dull—Shan, trimmed, No. 1, \$6, dull— Do. untrimmed, S5-Herrings, No. 1, S2 50-Cor-

### PRICES CURRENT

AT BALTIMORE:

Carefully Revised and Corrected	ever	y Thu	rsday.
ARTICLES.	PER.	RETAIL	PRICES
BEEF, Northern mess	bul.	17	
No 1		15	
No 2 Baeon,	lb.	13 50 16	
Butter, Ferkin	10.	18	20
Coffee, first quality,		33	
second do		27 27	28
Cotton,		45	
No. 6 a 10, -		46	50
No. 11 a 20, -		53	80
No. 20 a 30, - Chocolate, No. 1,		80 33	∌1 20
No. 2,		28 28	
No. 3,		25	
	hox	20	22
dipt,		18 45	19 searce
Cheese, American,	lb.	9	10
Feathers,	1	60	65
Fish, cod, dry	qtl	3 50	4-21
herrings, Susquehannah, maekarel, No. 1 a 3	bbl.	2 75	retail 12
shad, trimmed, -		7 75	7 87
Flour, superfine,		6 50	7
fine, middlings,	hbl.	5 50 4 50	6 5
rye,		4 a	4 25
Flaxseed, rough,		none.	
cleaned,	busb	do	,
Flax, Hides, dryed,	lb.	do 12	15
Hogs lard.		ie	13
Leather, soal,		25	30
Molasses, Ilavana, New Orleans, -	gal.	62 1-2 75	7.5
sugar house,		1	l
Oil, spermaceti,	gal.	1 50	
PORK, mess or 1st quality, -	bbł.	18 a	20
prime 2d do cargo 3d do		16 a	17
Plaster,	ton	5	
ground	bbl.	1 75	
Rice, Spirits, Brandy, French, 4th proof	lb.	2	3
peach, 4th proof	]	1 25	
apple, 1st proof		75	
Gin, Holland, 1st proof do. 4th proof		1 50	
do. N. England	İ	50	60
Rum, Jamaica,		1 50	2
American, 1st proof		75	6010
Whiskey, 1st proof Soap, American, white,	lь.	50 18	62 1-2
do. brown, -		9	
Sugars, Havana, white,		19	
brown, loaf,		14 50 25	15 28
lump,	ŀь.	20	a 25
Salt, St. Ubes,	bu .	70	
Liverpool, ground, Ehot, all sizes,	lb.	75 12	
TOBACCO, Virginia fat,	ewt.	7 -	
do. middlings,		6 50	
Rappahannock, Kentucky, -	1	5 6 50	5 50 7 50
small twist, manufactured,	lъ.	25	37
pound do		50	
TEAS, Bohea, Southong,	lb.	63	
Byson Skin	1.0.	75	
Young Hyson,	l	1 25	a 150
Imperial,	1	1 75	
WOOL, Merino, clean, unwashed, -	ļ	80 40	
crossed, clean,	1	65	i
unwashed, -		35	
common country, clear, tinwashed		37	
škipner's,	1	33	
		1	

Extracts from a Compedious Diction- effectual method of exposing completely the diseased ary of the Veterinary Art.

[Continued from No. 34, page 272.

BUCK EYES. A term used by dealers and jockeys for diseased eves.

BUFF. A name commonly given to that yellowish jelly, which is found on the surface of blood that has ed surface should be freely cut away, and when the been drawn from an animal labouring under an inflammatory disorder. This gelatinous coat, in pro-caustic is to be applied. Mr. Blaine recon-mends a portion to its thickness, pretty accurately denotes the solution of lunar caustic; one dram to two ounces degree of general inflammation that exists, and its appearance indicates the necessity of further bleeding. It is also named size, and blood with this appearance is said to be sizy. In fact, it consists of the coagula- firm but regular pressure on the whole surface, by ble lymph of the blood, from which the red particles means of tow, keeping it on by narrow plates of thin or colouring matter have prematurely subsided. See iron placed across each other, having their ends Blood.

indolent swellings, such as that which often remains after a severe train of the back snews. A swelling of the knee in consequence of falling sometimes con- New System of Parriery, "tar and vitrione acid times, after the inflammation that produced it has mixed together make a real specific for canker, as subsided; it is then free from tenderness and unasual heat, and is said to have become cultons. Various means have been proposed for dispersing such lead, half a pound: treacle, four pounds; nitrous swellings; such as camphorated mercurial ointment, acid, one ounce; both the whole to a proper consistoil of origanum, &c. but nothing is so fikely to prove ence, and when cold add the nitrous acid." It is effectual as blisteriog, which may be repeated twice occessary to dress a conker every day, examining or three times if found necessary, taking care that the 'he foot carefully each time, and removing any horn effect of one is quite gone before another is applied; and this may be more readily accomplished by wash inveterate cases the strongest causties may be eming the blistered part frequently with cold Goulard ployed with advantage, until the cankered parts bewater, beginning three or four days after the appling in to look more healthy, and the offensive smell has cation of the blister. In callous swellings about the been corrected. The sulphuric and nitrous acid back sinews, firing is the best remoov.

generally joined with abors, ginger, and soap; when powdered sublimate, red precipitate and burnt given as an alterative, it may be mixed with a small alum have also been recommended. When the cancordial ball. Calomel is an excellent remedy for kery appearance and smell have been corrected. worms; for which purpose it is either given alone milder dressings are proper; such as, for three or four successive nights, and then worked off by a common dose of Thysic, or joined with a sufficient quantity of aloes, &c. to act at once as a purgative. As an alterative, the dose of calcinel is from one to two scruples; as a purgative, joined with aloes, from one to two drams. When given to destroy oxen and sheep are hable to a disease similar to worms, and repeated for three or four days, the usual cauker, which conjetunes appears between the claws dose is about a dram. When employed alone as a of the d vidid hoof; at others it exists in only one of purgative, it has been given to the extent of half an the claws, appearing by a crack in the sole or crust, ounce; but this has been seldom done, and perhaps from which a fet'd discharge first issues a haumant there are but few cases in which it would be deemed forgus then forms, and the disease ends in the loss prudent to venture on so large a dose.

CANKER. An obstinute and often incurable discase which attacks the horse's foot. It more trequently happens to draught-horses than to the saddle or blood horse, and to the hind than the fore-feet. Canker generally first appears in the cleft of the hog, which discharges matter of a very offensive smell; thence it gradually spreads to the other parts of the remain three days, and then, if no foot, and if not checked, ultimately affects even a piedgit of lint only is to be applied, the tendons, I gamen's, and hones. If canker be attended to at its commencement, a cure may generally be effected without nach difficulty, merely by removing carefully all the horny matter, that nature and objects suited to a paper of this sort, such may be detached from the sensitive parts, and washess, the sales of land, seed, I ve steek, implements of ing the diseased surface twice a day with a strong husbandry, new inventions, &c. &c., will be inscribed solution of blue vitriol. It generally happens, how some only, at the rate of \$1 per square, to be paid in solution of blue vitriol. It generally happens, how lonce endy, at the rate of \$1 per square, to be paid in ever, that the disease is unabserved or neglected advance. The very expensive circulation of this pauntil it has made considerable progress; and then per among landed men, throughout the United States, the cure is often extremely difficult. The first thing makes it an eligible medium for giving such public o be done, in whatever stage the disorder may be, notices, and one publication is as good as forty, unless s to cut away completely all the horny matter, which in cases where the law prescribes a greater number of may be found to cover a diseased surface, and afford times. a lodgement for the fetid matter which formed must be done freely; it is better to pare away too much than too little. Some practitioners go so far is to remove the whole of the bottom of the foot, or draw the sole, as it is termed; and in cases of ong standing, where the disease has spread under great part of the horny sole, it is perhaps, [the] nost

Mr. St. Bel strongly recommends it, and, indeed, all practioners agree in considering the con plete removal of the horny matter, which covers the diseased sole, or frog, or bars, as an essential and indispensable operation.

The fungous matter which crises from the cankerbleeding which follows shall have ceased, some mild of water : or blue vitriol, alum, and white lead, of each one ounce, finely powdered, and sprinkled on the part; he then advises to apply very carefully a under the shoe; for it must be remembered, he says, CALLEUES. This term in farriery is applied to hard that firm permanent pressure is the only thing to be depended upon, when the exuberant or tungous part has been removed. According to Mr. Feron, in his New System of Farriery, "ter and vitrione acid well as thrushes ;- or take powdered verdigris, one pouled and a half; burnt alum, half a pound; red that may be found covering a diseased surface. In have been used undiluted with good effect; but these CALOMEL. A well-known and very useful prepa-ration of quicksilver or mercury; it is used as an electronic and a sapurgative: for the latterpurpose it is powdered, exclinate a useful caustic for this purpose;

Friar's balsam, two ounces.

of the claw. If there be only a discharge, Mr. Blame advises the application of astringents; and if a fungus has formed, the opening is to be enlarged, and the excrescence removed; after this, he directs a hard pledgit of Lut, sprinkled with powdered libre vitriol and alum, to be applied exactly within the edges of the wound, and firmly bound on the part; this is to remain three days, and then, if no fungus appears,

ADVERTISEMENTS, which are, in their na-

PRINTED EVERY PRIDAT AT \$4 PER ANN.

FOR JOHN S. SKINNER, EDITOR, At the corner of Market and Belvidere-streets, BALTIMORE, By JOSEPH ROBINSON.

# AMERICAN FARMER.

## Rural Economy, internal improvements, news, prices current.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIRG.

### Vol. 1.

### BALTIMORE, FRIDAY, DECEMBER 10, 1819.

NUM. 37.

#### AGRICULTURAL.

To the Editor of the American Farmer.

Sin,-By a resolution of the committee of the Agricultural Society of Prince George's County, I am directed to transmit to you the enclosed documents, with a request, if you think proper, to have them published in your valuable periodical paper.

I perceive in this paper, that you express a desire to know the Constitutions and dates of the establishment of all our county societies-cheerfully I comply with your wish, as regards the one of this county—it was instituted on the 24th of November, 1817, by a small number of members, and now coner its of between 30 and 40. The articles of Constitution were trawn tiveness occasioned by superior cultivation? Mr. Cur public places.

I have the honor to be with much regard, Sir, Your very obed't serv't,

A. W. PREUSS.

John S. Skinner, Esq. Baltimore.

### ADDRESS

Of Thomas Law, Esq. the President-to the Agriculture! Society in Prince George's County, at the meeting in October, 1819.

As the wealth and power of a nation depend upon the accumulations of congregated industry by individuals-self-in erest and partriotism combine to stitifying to consider how many persons have sold their farms at low prices, and relinquished their birthplaces and friends, to settle in the western wilds, from inability to support themselves on impoverished land. To mismanagement only can this necessity be attributed-year after year have they scratched the surface of the earth with diminutive, feeble, half famished cattle, and badly constructed ploughs, without returning to it any sustenance by clover or other manures. How very few farmers estimate the expense of cultivation and of seed, or calculate what is th net surplus from their crops, after charges are deducted. Mr. Curwen, in bis reports has given the following statement of the cost of working a pair of horses bya Berwickshire farmer.

							£.	8.	d
Keep of two	hor	ses.	-				70	00	ÚU
Driver, .		- 1			-		30	00	00
Blacksmith,	,	•	-			-	3	00	00
Sadier,	-	•	•				2	<b>0</b> 0	00
Det rioratio	n.	•	-					10	00
Tax,	-	-	-		-		00	9	00
Money,	-	-	-	•			10	00	00
Carts, Plou	ghs,	&c.	•	•		-	10	00	00
	£.	Ster	ling,				125	19	00

"This is a charge of £2 10s 6d per acre, supposing a pair of horses to be equal to 50 acres, in East Lothian, where 40 acres are supposed sufficient for the iabor of two horses it amounts to £3 3s per acre." If seed be added to this, it will require about thirteen bushels of wheat per acre at the present prices for the farmer merely to in emnify himself.-Alas, 1 apprehend that our crops on this side the Susquehanna rarely average this quantity.

It is a so desir, ble that we should pride ourselves more on our implements of husbandry than on our furniture, and on external abundance rather chan on interoal luxury. As a proof of the expense incurred by spiritest farmers in England to improve their lands, Mr. Curwen mentions a Mr Logan who laid out seven pound sterling per acre in liming, at the rate of about 250 bushels per acre. In Great Britain nine tenths of the land are leased

out to tenants, who pay from two pounds to five pounds sterling per acre, and they find every thing for husbandry, and even on these terms they grow nich, whilst we, without tythes and taxation, and with slaves can scarcely support ourselves-to what can we attribate this unpleasant contrast, but to superior producup by me during the recess, and adopted at the fol- wen states had lands of the best quality are supposed Statement of the Land for Green Crops at the Schoose lowing meeting in February, 1818.\* The first meet- to average 34 Winchester bushels per acre, and of the and Moor Close Farms, for 1812 ings were held at private houses, but the inconveni- worst quality eighteen bushels-I leave to you my bro ence attending it, when the number increased, was set ther associates to average our crops. The above, menaside, by a resolution to have them in future held at tioned gentleman complains, that the great and prevailing error in English Agriculture is overploughing, and having more land under tillage than the quantity of manure will justify—were we to limit our tillage to our supply of manure, what an increase of old helds we should witness, and yet I am convinced that Landowners would be in better circumstances. I have been pamed to behold in my rides, fields of wheat, oats, rye and corn which would scarcely return the seed sown. The rule with us is, because we have many hands, we must cultivate a great deal -England has been called a garden spot, and so it must necessarily be to support twelve millions of inhabitants on a territory not larger than Virginia. We have twenty states for a population of nine or ten millions, and only exwhich if all in wheat would not feed more than 200,000

> That you may judge of the produce of an English farm I will copy Mr. Curwen's statement :-

322	acres of Wh	eat at	£12 st	erlın	g per	acre.	£3864
16	Barley,		4 *	-	٠.	• 1	72
	Oats, -	-	4	-		-	200
247	Clover,	•	12		-	•	2804
76	Meadow,		6	-	-	-	456
51	Potatnes,	-	13	-	-	-	663
	Carrots,	•	7	-	•		76
10	Cabbages,	-	8	-	-	-	80
47	Turnips,	-	5	-	-	-	115
17	Sweeds,	-	7	-	-	-	110
	Cole, -	-	5	-	-	-	115
2	Lucerne,	-	10	-	-	-	50
20	Pastures,	-	5	-	-	-	<b>10</b> 6
894	acres.						£8678

He sold 146,780 quarts of milk at 2d per quart, amounting to £1223 18s 6d, and heeves, but he credits himself with clover

After this he gives the following account of manure Manure Account from Nov. 1810, to Nov. 1811.

High Hunday	37	0	2	2463	Horse Carts.
Ox Close	38	1	9	1976	gitto
West Leathes	28	1	16	813	ditto
Common	70	0	U	4360	ditto
Great Laborays	20	0	0	300	ditto
Scaw Gill 2 fields	40	0	0	1436	ditto
East Waites	13	0	0	<b>5</b> 61	ditto
West Waites	14	0	0	1197	ditto
Well Croft	14	0	Ď	892	ditto
Old Potatoe field	15	0	0	308	ditto

13746

Quantity of Man	11111 1'e	quire	ed at the Schoose,	for 1012.
	acres.	•		curs loads.
Low Hun lay	21 at	60	Loads per acre,	1260
	16	do	do	960
Bowman's field	5	do	do	300
Milling	6 I	do	do	3660
Low Park	20	do	do	1:00
Quarry field	131	do	do	810
Little field	$2\frac{1}{2}$	do	сb	150
East Low field	5	do	do	300
West Low field	10	do	do	600
Cemmon	7	do	$_{ m do}$	420
Ox Close	10	do	do	600
	171			10260

and Moor Close Parms, for 1812

ı		Acr.	Turn.	Cabb.	Potat.	Mang.	Cole,
١	Low Park	20	20			Wurz.	
1	Mill Rig	61	51	10			
	Low Bunday	21			21		
	Winscale's field	6	1		16	1	
1	Bowman's field	5	5			ļ	I
١	Ox Close	10				10	į
1	Quarry field	134		1	133	1	
1	Little field	53		ĺ	23	1	
	Low East Close	5			ì .	1	5
١	Far West Close	10			İ	}	10
1	Common	7		į	1	1	7
1							
1	Total,	171	76	10	53	10	55
1			<del></del>	-		**********	-

Supposing the 13764 single horse carts to be equal to 4584 tons, taking the distance to be on an average mulate us to improvements in Agriculture. It is morport produce to the amount of fily million of dollars; one mile, it would require the borses to travel loaden and empty 27528 miles. Taking into the account the carrying from the pies\* to where it is to be used, we may fairly compute it at thirty thousand miles. Supposing the number of working days 500 and that each horse travelled 15 miles a day, would require nice horses to be constantly employed. The advantages are great in having an estimate of the supposed quantity of manure necessary for the crops."

We here perceive a quantity of manure given to the

so.l, of which we have never entertained an idea -I have already assigned reasons why our climate is more favorable for crops, and the crops less liable to

failures, than the English

That the value of our estate must rise rapidly by such improvement of the soil, and by such crops is self-evident. That the expense of cultivation in proportion to produce, must also be less, is equally undeniable.

On the subject of soiling, I have already treated at large, and I am glad to perceive that Mr Tilghman has adopted it with success-I must refer to his letler printed in the American Farmer, for the particulars of his most successful mode of cultivation.

Next to deep ploughing and manuring, I must solicit your attention to irrigation -- When I commenced farming three years ago, I hearnt from my neighbors that I must not water my meadows after the end of April or middle of May, as the sun would heat the water and scald the grass; as I had been in Asia where they rely entirely upon water for the crops, as the rain never falls for seven or eight montis, I doubted their intelligence, and snon ascertained that by watering they meant overflowing. I therefore conveyed water from my neighbor's spring, and found much benefit by moistening the roots of my grass.-

<sup>\*</sup> Published in page 114 of the Farmer.

<sup>\*</sup> By pies he means cowdung covered over with earth in small heaps.

ly injurious. - The sun burns the grass, plant, &c. in either case stagnate water is also destructive of vegetation

On the subject of irrigation, I will give some extracts from Mr. Young's tour, which will be both instructive and entertaining.

" Piel nont Rice-Such is the consequence of water here, that land lets for about £15 sterling per annum, an acre with a small house. The watered meadows are now mowing for a third time, the predominant plants the epicorium intibus, plantago lanceolata, acchilles nullefolium, and trifolium pratense.-From Coni to Turin more than half the country appears to ed would enrich our uplands-let any one bury a httle be watered, possibly two thirds-it is singular that manure here and there in a field, and he will be more treaches are not dug to carry the water off the struck with the superior luxuriancy of any crop on land, from which we may conclude either that the those spots-several English farmers have visited me heat of the climate renders such drams less necessary than in England, or that water is too far to be brought crops without manure -This summer being so very weeding also is much more quickly performed-1 have on in the least superfluous quantity The contrivance towards Turin for carrying the aqueducts of irrigation across the roads, are beautifully executed; aant of an improved soil-when a soil is well maourfor convenience of distribution the water course is raised three or four feet or more above the general manner. In Asia the natives rely almost entirely on sowed in rows, and rolled in above two acres of seed level; these aqueduets are brought to the side of the water, for agricultural and horticultural crops, parti- in a out four hours. The time is not far distant, when road, and seemingly finish in a wall, but really sink in cularly for potato s, which always are most productobacco will be drilled, as the annual fall of prices, a syphon of masonry under the road and rise on the live in a wet season. other side behind a similar wall. Seeing these buttresses of masonry, without perceiving at first any also a most beneficial experimentalist, has this year water, I wondered for a moment to what use they covered all his corn without the labor of hocing, I could be assigned, but when I mounted the footway, have requested him to communicate to us, the mode this beautiful contrivance was at once apparent, adopted and to exhibit the machine; he first recom-These are noble exertions, water is measured with as much accuracy as wine."

"Next Milan, land sells at £32 15s, the English acre, and the rent is about £1 5s-but there are lands that rise to £163 the English acre.—In lands water makes half the value, that is the rent will be half to the owner of the land and half to the owner of water."

"I was shewn between Wilan and Pavia a spring that was discovered two miles from the land of the discoverer, the properties of many persons lying between him and the spring; he first bought the property of the owner of the spring and then he conducted it at pleasure the two miles, paying according to law, the fixed price for cutting through his neighbors grounds-and having gained it upon his own, soon changed poor hungry arable gravel into a very fine watered meadow. -- The watered meadows are mown four times, and what is watered in minter, five times.-All in general begin to water in April and last till September, and if there be no rain once in seven or fifteen days—an ounce of water running community all the rest—they become an ornament and enrich the from the 24th March to the 8th of September, sells proprietor; and they also, add to the salubrity of the

"Every considerable spring, that is found becomes the origin of a new conal; they clear out the head for most proper for resouration?" a basin and sink casks by way of trenches, for the water to rise freely, without impediment from mud or weeds; there are usually three, four or five of these at the bottom of a bas n of twenty or thirty var lswithout irrigation, the rent of this count y would be only one third of what it is at present. - The trenches for letting in the water are deep ones, struck with the plough from eight to twelve yards asunder -Septemher-they are now watering clover eight inches high, by letting the water into these trenches, and conductwig it in a singular manner - a man walking backwards a stout man, and told him to carry a letter to the draws by a line a bunch of straw and weeds, just large other, and to sleep on the road every night, under enough to stop the water in the trench, and force to tamarind tree—the purport of the letter was, that the over low on each side -This is an expensive and ope-bearer had a complaint, which baffled his skill-the twer low on each side — This is an expensive and operate but a complaint, which baffled his skill—the tude, for the blessings of a superintending provi-rose method inferior to the Spanish. In Spain the Lind is prepared for water by levelling with a nicety, learnt the cause of his disorder, and immediately or-ledge to improve upon the preceding year, and reland is prepared for water by levelling with a neety, learnt to cause of instance, learnt to cause of i the only expense except conducting the water. This and to delay r this reply, "the hearer you will find the only expense except conducting the water. This with general level is divided into oblong beds from six to recovered."-Wholesome trees in large Citics, would conscious satisfaction be lears the tempest howl in eight feet wide, by little ridges of fine mould, drawn perhaps prevent the yellow fever.\* up nicely every time the ground is sown, in order that the water may not spread over too much at once, high. Every time we see irrigation, we are more and from the leaves.

Too much watering and very little watering are equal- more struck with the importance on water; French! and even six times a year--crops in perpetual succession. All the crops I saw of Lucerne would yield ten city ton, at 16s sterling a ton, this is £40 sterling per icre. Maize or Indian corn, is sown sometimes only or its herbage, it is one of the most nourishing plants on the world

> I have made these long quotations, that attention may be given to this important subject, by watering low lands; grasses may be procured for horses and cattle, during summer, and the manure thus producthose spots—several English farmers have visited me broad cast, it can only penetrate six incles.—The lately, and they all have wondered how we can obtain manure also can be placed exactly under the plant irv, has shewn how in many places the labor of the ditivator, and the seed have been entirely lost, for any in the country, and I attribute my success this ed, a crop withstands drought in an extraordinary

> Mr Hebb, my neighbor, a very excellent farmer, and mended the cultivator by his example, and it is found to be superior to ploughing and harrowing after the casily conceive that galvanism would facilitate the corn is up, and to save much labor-an object of the making of cream .- Pewter pots were for many years greatest importance, where hands are so scarce and preferred to silver or glass vessels for porter, as the

> Permit me again to urge you to plant Locusts, Chesnuts, Cherries and other useful trees along your fences.-Mr. Say, a much approved of author on political economy, says, "In all times attention to trees, is recommended most strongly by the ablest men.-The historian of Cyrus, puts amongst the number of reply, (given by me to our Secretary,) to assure our his titles to glory, his having planted all Asia Minor, respectable associates, that he accepts of its memberwith trees.—Sully, who had so many valuable econo-mic views, planted trees in almost every province of toreign wheat which I have brought to parcel out France. I have seen many of them, to which public veneration attached his name, and they reminded me of Addison's observation, whenever he saw a planta-countr to be benefited by he introduction of the tion of trees, when he exclaimed, "a useful man has best grains, seeds and plants of every kind from forbeen here "

" Man has only to plant trees once, and nature does air -for the leaves absorb carbonic acid gas, which when too abundant is destructive of health, whilst they give out oxygen, which is that part of air the

Mr. Say also observes, that trees cause rain, and also, benefit the soil by sheltering it from drying winds. Mr. Say, alludes only to the absorption of him, and he is conscious that his country benefits by bad air, but trees may be planted to improve it .-The Asiatics have learnt from experience, that trees are either projudicial or beneficial to health, according to their di lerent exhalations, and to confirm, tell a story of two Physicians, who resided at a distance, and her the farmer's life the most happy and most innowished to ascertain each other's skill. The first chose

\* When the lett drought continued so long, I prein which case the irrigation would be unequal; small dicted yellow f vers -in paved towns, moisture being trenches take the water from the carrier canals and evaporated, can only be supplied by privies and from pasting by the ends of those beds, the farmer opens cellars, -Cats are then found dead, and the air be there at pleasure, to distribute the water where want-comes infected-were trees planted, moisture would ed." -" Watered maine is here from seven to nine feet ascend from the roots and pure air would be emitted

You may expect Gentlemen, some report of my own beans: even feet high - good, because cut three or four progress in farming - experience has taught me, that timothy ought to be on uplands, and that potatoes, turmps and corn, ought to be on low land.-Every cons green to the acre, let us suppose five cuttings on person who has it in his power, should have a garden on an elevated situation, with a south exposure for spring vegetables, and low grounds for the summer productions - had I known this before, I should have gamed several hundred dollars.

Let me again recommend the drill husbandry, in preference to broad cast; turnips, carrots and all vecetables with tap roots, are enabled to sink deeper by the former mode, and to swell more easily-say that the earth be ploughed six inches deep, and that the ridge be raised six inches, the root can thus penetrate twelve inches, before it reaches hard soil, whereas by a field of drilled turnips, which I believe, surpasses ear, so remarkable for drought, entirely to drilling with y sowing machine, and a roller following, I will compel planters to adopt this economical and advantageous mode.

Permit me now to advert to my dairy, and to recommend to pans for milk, in preference to crocks or carthen pans, as I find that the former makes cream much quicker and in greater quantities; pewter pans were used before the revolution, and I can former improved the liquor's flavor, prejudice rid .culed the feet, till chemistry demonstrated the cause -1 have imported six cows and a bull, selected by Mr. Curwen.

I imparted to Mr. Crawford, your offer to receive him as an honorary member, and he desires me in his by his desire amongst us .- When the head of a D partment shews such zeal, we may expect our eign realms, to be naturalised here.

Mr. Fenwick has brought over some specimens of fine wheat from Spain, and merits our thanks.

It is most gratifying to witness such a spirit of agricultural investigation excited throughout the United States .- What a pleasure it will afford to every landholder, if by a proper system of cultivation, he finds his produce annually increase, and his expenses in proportion diminish, whilst his estate is constantly rising in value; whilst his example gives useful information, and occasions emulation all around the increase of productions. Agreeable and useful occupation, augments his conforts, and philanthropic and pairiotic sentiments, free from the petty jealousies and malignant rivalship of trade, all combine to renent. In spring he casts a cheerful regard around, buoyant with hope, whilst his exulting thoughts naturally ascend to the bestower of all gifts -In summer he gathers in his harvest with heartfelt grativain his wood is collected to defeat cold, his farm supplies every necessary, and even his cattle are sheltered and well fed by his provident care.

- "The touch of kindred too and love he feels;
- "The modest eye, whose beams on his alone
- "Ecstatic shine, the little strong embrace
- " Of prattling children, twin'd around his neck,
- "And craulous to please him, calling forth "The fond parental soul-nor purpose gay,

- "Amusements, dance, or song, he sternly scorns
- "For happiness and true philosophy,
  "Are of the social, still and smiling kind.
- "Tins is the life which those who fret in guilt "And guilty cities never know-the life
- "Led by primeval ages uncorrupt, when angels
- " Dwelt and God himself with man."

Before I conclude, let me recommend to you the American Farmer, a paper which collects into a focus, all the rays of light on husbandry, which are emanated from every quarter of the Globe.-I have requisted Mr. Skinner to give an annual index-which will make it equal to a library for a farmer.

FROM THE ALBANY ARGUS.

### Treatise on Agriculture.

SECTION VIII.

which it is founded.

Whatever pains we take, whatever expenses we of wisdom. will vegetate on wet cotton and wheat, in pure paid to the nature of the soil, viz: In all soils, not more than two bushels are obtained, and sand; Indian corn will grow in high northern more wet than dry, more compact than porous, much is so bad as to be ploughed up again."

latitudes, and the apple may be found near the more hard than Iriable, the course is made up equator: we have seen St. foin, struggling in from the following plants, wheat, oats, buck- and wheat, alternately, as long as the land will arid mountain; but all indicated the violence ctover, cabbages and chicory. In soils of an cultivated, several crops of it are taken, in sucdone to nature, and presented only specimens opposite character, (dry, porous and friable) cession, before any grain is sown. No one states diminutive in bulk and deficient in quality. the plants from which to choose, are rye, spelts, the average of that extensive flat country in The influence of markets, on the value of pro-barle, potatoes, turnips, (2) lupins, Indian corn, Virginia, lying below the head of tide water, at duce, is as little to be denied, as that of soil and clover, St foin, and many of the pasture grasses. Inure than five or six bushels; and in those fertable vagetables are of much more value than of sand, clay and decomposed vegetables) the in which ignorant cultivators have not yet rewheat or rye; but, remote from markets, wheat choice of plants is much enlarged; embracing saled sufficiently long to have entirely exhaustand rye have the advantage, necause being more what is more peculiarly proper for both sand ed the soil, the produce may not be less than valuable, in proportion to outk and weight, they and clay, and having besides, the following twelve bushels the acre," bear better the expense of transportation.

proceed to examine, 1st. the practice of Europe : hops, tobacco. madder, hemp, plan, &c. &c. The stion, that " we are the mist en ightened people and 2d, the rotation best adapted to our own inhuwing cases, will sufficiently illustrate the on the face of the globe," and the less so, as a soil, meridian and markets; and

1st. Of the practice of Europe:

when left to itslf, was never either exhausted same species, or kind, to follow each other. or tired or idle; but that however stripped and denuded by man and the animals he employs, it soil, meredian and markets. hastens to cover itself with a variety of plants. that in these voluntary products, there is a con-

To this branch of our subject, we invite par-land even prefers four months unproductive wheat, 4th, and 5th, clover.

plants from which to select: Rice, miltet sor- | These specinens of agricultural skill will not

thus and nearly regular succession of plants plough, and that New York was then, and would differently organized. - Phese observations continue to be, the granary of America, he procarefully made and no longer doubted, and ceeds to divert his British readers with the folothers, leading to the same or similar conclu-lowing details.—" The usual course of crops in -mos, first sugge-ted the usefulness of taking this state, (N. Y.) is first year, maiz. (Indian nature as our guide, and of conforming our arti-(corn :) second, eye or wheat; third, flay or oats. ficial crops, to the rules which obviously govern- and then a repetition of the same, as long as the their spontaneous productions. The effect was land will bear any thing; after which it is laid uch as was expected, and for more than half by to rest. A Dutchman's course, on the Moa century, the rotation system has formed the bank, is, 1st year wheat, 2d, pea-, 3d, wheat, true test of agricultural improvement, in every 4th, oats or flax, and 5th. Indian corn. In variety of soil and climate. Whenever it has Dutchess county, the rotation is, 1st wheat, 2d been adopted, the art is found in a state of pros- and 3d, pasture without seed, and 4th, Indian perous progression: whenever neglected or re-gorded, it is either stationary or retrograde. Yet Pennsylvania, Delaware, and Maryland may be in the face of a lact, carrying with it such con-classed together, from a resemblance of climate, clusive evidence, the bulk of agriculturists con-soil and mode of culture; and here we have. time to resist this cheap and obvious means of " 1st year, Indian corn, 2d, wheat, 3d and 4th, moprovement, and pertinacionsly adhere to a rubbish pasture. Clover is however, beginning Of a rotation of Crops, and the principles on system, (that of tallows) which condemns to to be introduced, in some such course as the an al sternity, one fourth part of the earth, following: 1st, wheat, 2d. Indian corn, 3d,

ticular attention, because, in our opinion, it labor, to abundant harvests and nutritious crups! Two exceptions are however taken to this forms the basis of all successful agriculture. But from this display of fully let us turn to one system, 1st, in the German settlements in Peunsylvania, where from more attention, or more ineur, in collecting instrumen's of husbandry, On the rotation system, the whole arable part skill, " the wheat crop averages eighteen husbels in accumulating and applying manures and in of a farm, is divided into four, six or eight fields, to the acre: where ticenty-five bushels are fretilling the earth: all is to little purpose, unless and subjected to a course of crops, denominat-quent, and instances of thirty not wanting; and, to these, we super-add a succession of crops, ed, (according to the number of these divisions) 2d, in the peninsula of Maryland and Delaware, adapted to the nature of the soil-to the laws of the short, the medium, or the long course. In where the rotation of Indian corn, wheat and the climate, and to the physical character and constructing these courses, however, whether rubbish pasture, has reduced the average procommercial value of the article raised. Peas, long. middling or short, the utmost attention is duce to six bushels per acre; in some instances

wet clay, and aquatic plants, on the top of an wheat, the gramineal grasses, beans, vetchtings, produce them; and in parts where tobacco is climate. In the neighborhood of great cities, In learns, (which are nearly an equal mixture tile and beautiful vallies, among the mountains,

With this general view of the subject, we quin, (African millet) luceru, indigo, cotton, be adduced as proof of the favorite national poprinciples on which they rest, viz: Never to hapse of eighteen years had not entirely weaned select for a crop, plants not adapted to the soil ; us from ancient habits; for neither on the Ma-It was long since discovered, (1) that the soil and never, in any soil, to permit two crops of the ryland peninsula, nor in castern Virginia, is there any material alteration in their mode of 2d. Of the rotation best adapted to our own culture, excepting what may have arisen from the fact, that having no more fresh land to ex-Previously to entering upon this subject, it has t, they are now obliged to recur to old field, of different and even opposite characters; that may not be amiss to glance at the practice hi-land are of course, annually suffering the new some of these have a tendency to render the therto prevalent among us. What this was, in and increased penalties of former improvidence. earth more compact, while others have the effect 1801, may be seen in the answer of an English On the western shore of Maryland, in the of opening and dividing it—that some, (from algentleman and traveller, (Mr. Strickland) to northern parts of Delaware and in Pennsylvapeculiar structure of roots, stems and leaves) certain queries of the British board of agricul-ma, New Jersey and New York, the state of derive most of their nourishment from the earth, ture, in relation to the state of husbandry here. things is better; clover has been substituted for while others, differently formed, draw their's After remarking that New England was not a (what Mr. Strickland calls) rubbish pasture, and principally from the atmosphere: and lastly, corn country, and had little to do with the the root husbandry is encroaching, on summer fallows; which we regard as a decisive step to-

After this brief statement of the past and preappears to have thoroughly understood this branch of culturists, among the products of strong substantial sent state of home agriculture, let us anticipate the true repose of the carth is in a change of its production.

After this hrief statement of the past and present state of home agriculture, let us anticipate the true repose of the carth is in a change of its production.

After this hrief statement of the past and present state of home agriculture, let us anticipate the true repose of the carth is in a change of its production.

We cannot believe, that favored as duction.

<sup>2</sup> We here speak of the white turnip. The Ruta wards a regular and judicious rotation of crops. 1 Virgil, who was a philosopher as well as a poet, Baga, or Swedish turnip, is classed by French agri-

tive soil, with an enquiring, reflecting and inde-1st. Ander; and West by New Biscay. Itmust multiply the means of subsisting cattle; because these will, in their turn, give manures, and manures, will quicken and invigorate the soil for the production of articles of the greatest ple basis, that we offer the following tables of a far south, or too hot for the vine.

Medium course in clay soils:—1st year, oats with clover; 2d, clover; 3d, wheat; 4th, heans dunged; 5th, wheat; 6th, the yellow vetchling.

3 This is the boasted Norfolk course of crops.

#### FROM THE NATIONAL INTELLIGENCER.

On the Grape Vine, with its wines, brandies, salt, and dried fruits.

No. IV.

The state of this culture in the Spanish North American province of Cohauila is worthy of the most particular attention of the people of the Southern and Western states and territories. North latitude to 32. there was and is prohibited by the orders of the 38 degrees 45 minutes, give us the most include. latitude. S, such crown, to prevent the interference of table assurances of a vine district, or a vine retheir colonial agriculture with the wines, braudies, and dried grapes, which are produced in every province of European Spain. This royal law as not made and continued without a conviction in the successiv councils of spain that the culture of the vine was practicable in Spanish North America. But the capacity and prooun of the extensive district of Conauda, is proved by the printed report\* of Don fo del Ramos de Arispe, Carate (or flector) . Spanish church of Borbon, and Deputy fi the American province of Cohamla to the Cortez, which report was printed at Cadiz, in A. D. 1812.

Cohauila is bounded on the North by Texas and sow Mexico; on the East and South by St. .. Potosi, Macatecos, New Leon, and New

pendent yeomanry, and with civil institutions, northern part is west of the states of Alabama. which favor and protect all the developements Mississippi and Louisiana, from their coasts of industry and genius, we shall long remain on the Gulf of Mexico to the latitudes of land proposed to be suggested to all persons of behind the seris of Tuscany, the tenants of En. Natchez, Washington, (Mass.) and a few mi-perfence in the culture of the grape vine, and gland, or the peasants of Flanders. But to nutes north. Cohauila is also west of the be manufacture of wine, in those parts of the rival these, we must follow their example; we whole coast of Georgia, and East Florida; the finited States where the vine cultivation has south cape of the Savannah river being about 32 degrees north. The precise situation of this well established Spanish North American vine value and the highest price. It is on this sim- proof that no part of the United States is too eries his interesting statement is given. It It is probarotation of crops, adapted to our own circum- he that the exotic grapes in Spanish America Medium course in sandy soils:—1st year, po-that their wines are like those of the mother rience, or in their observations upon their tatoes dunged: 2d, rye, with turnips after har- country. This fact gives us a reasonable hope vest, consumed on the fields; 3d, oats and clo-lof making such wines as those of Xeres and St. ver, or barley and clover; 4th, clover; 5th, Lucar, which are all often called Sherry. It is or vintage of Vevay, and Glasgow in Kentucky, wheat, with turnips after harvest, consumed on distinctly and officially stated by the deputy is stated. The latter place is supposed to be the field; and 6th, peas or lupin, or lentils. from Cohavila to the Cortes of A. D. 1812, a little more than one hundred miles due south. We have, by this course, eight crops in save (Don M. Ramos de Arispe,) that this North of Vevay. The difference of two weeks in American province produces considerable the time of gathering is therefore worth of attended the transfer of the consideration. It is observed that the transfer of the consideration. tatoes dunged; 2d, year, wheat with turnips, as and vinevards giving wines as delicious as those country in which our Glasgow is situated is callin the prece ing course; 3d year, Indian corn of Castile, in Spain. He adds, that their rais ed barren country. If the name has been givand pumpkins; 4th year, harley and clover; 5th ing of wine is one of the most productive en from the inferiority of the soil, compared with year, clover; 6th year, wheat and turnips as branches of their agriculture, and so great that the hetter counties, then the success of the vine becore. In this course, we have nine crops in they supply their neighboring colonies, and even in soil lighter (if it so be) than that of Vevay, six years—five of which are ameliorating crops; send some of the finest to Mexico—where they and with a degree and a half more of southing, Metropolitan European country.

to equal any colony of Spain.

gion in the United States, from our coast on marks intended to remove those doubts and the Gulf of Mexico, northward to the end of the those objections which prudence, or the interest direct interest to that extensive country of the have the profits of supplying us with wines, vine of the United States, and must have the brandles, and dried fruits, very naturally offermost sure and favorable effects in the settle- It is no longer a speculation in the possible or ments of its lighter lands with a free white probable fitness of our climate, soil, and counpopulation, as in Spain, Portugal, Italy, the try, for the various kinds of grapes and wines. South of France, of Germany and of Switzer- We find in Cohauila from 26 to 32 in our bemisland. It will also benefit the cultivators of cot-phere, on our continent, in the northern section ton, suga, tobacco and rice, by preventing the of it, in a new and much wooded country, heoverdoing of their productions, as they may be tween the Atlantic and the Pacific, that the vine respectively in danger of being too plentiful in succeeds, in quantity and quality, though prothe markets of the United States and of foreign hibited by the government.

countries. But the vine cultivation will also that in a place so far north as the important in employing the population and Vevay, five hundred gallons have been produclaborers south of the 40th degree (with cotton, ed by the acre of land, and that the vine is the states north of the 39th degree.

A measure of manifest importance to the therough investigation of our capacity and acvial inceptions in the vine and wine business, is Pen attempted, on a great or small scale. The espectable gentleman who superintends the ineyards at our American Vevay, has happily district, is of great consequence, as a positive led the way. In the second number of this will serve as a guide to those who may follow im, which they may use to advantage. adding have been brought from European Spain, and whatever has occurred within their own expeneighbours and their books. It appears that a difference of two weeks between the crop-timemust su-tain a competition with those of the and perhaps in a dryer, or even an arid country, would be matters of curiosity and of interest. It is remarkable that the Spanish and Portu- ! The history of "the great tun of Glasgow," guese nations have established more considera-[Mr. Merchod's large cask—and of his vineyard, hle, more excellent, and more profitable vine-from the beginning, with its present state and yards in their culonies and islands, than all prospects, would be useful and entertaining to other European nations, and Cohauila appears the public. An account of the scuppernong, and other grapes of North and South Carolina, On the whole, the profitable growth of the especially in the vicinity of Raleigh and Columvine and the manufacture of wine, in the North-bia, would be also of much interest; and the ern section of the American continent, from more so, because it is considered by persons of the Southern part of Cohauila, in 26 degrees experience and observation that there is a north to the vicinity of Columbia, (in South strong similarity of temperature, and a suffi-Carolina.) in 33 degrees, and to the first rising ciency in soil, between the French Claret. Saucountry in North Carolina in 34 degrees to 36 terne, Grave, and Hermitago wine country, and degrees 30 minutes, and to Glasgow. in Ken-oul country in the two Carolinas, Tennessee, That Spanish province extends from 26 degrees tucky, in 37 degrees, N. and to Vevay and Ha: Georgia, Alabama, and Mississippi. and west-The culture of the vine mony, in Indiana, in 38 degrees 50 minutes, to ward in the whole 34th and 35th degrees of N.

We shall conclude this paper by a few re-This is a matter of the greatest of judicious foreigners, of countries which now

rice, and sugar,) so as to leave the more of the equally prosperous at Harmony, in Indiana; culture of grain, and the breeding of working and more so at Glasgow, in Kentucky. The and mear cattle, and the catching of sea-fish, to litness of the intermediate country, in the proper situations, which offer to us in every coun-

<sup>\*</sup> For sale by Mr. Mellish at Philadelphia. The riyers of Cohamla are the tho , avo del Norte, or Grande, or Medina, S. aca Rosas, Parras, Medios, Nadadoves, and St. Domingo-

ty cannot be doubted. It is respectfully re-direct; and the respective awarding committees shall by the committee on that subject; and those on doshals in the United States be directed to inquire into and report every case of a regular vineyard, great or small, at which wine has been of grape, in what quantity, and of what quality and color.

A Friend to the National Industry. Philadelphia, Nov. 6, 1819.

### Articles of Association

Of the Agricultural Society of the County of Trumbull IN THE STATE OF OLIO.

ARTICLE 1. The name of this society shall be the Agricultural Society of the County of Trumbull: And the objects of the society are the Promotion and improvement of Agriculture, Rural Economy, and Domes tic Manufuctures.

ART II. Every member of this society shall subscribe these articles, or a copy thereof attested by the recording secretary, and shall pay, at the time of subscrabing, or within one month thereafter, to the treasurer, for the use of the society, one dollar. he shall also pay, in like manner, at such time, annually, as shall be directed by the by-laws of the society, one dollar, so long as he continues a member: And whenever a member chooses to withdraw, he shall have liberty so to do on giving notice in writing to the recording secretary, and paying all arrears and dues, including the then current year.

ART III. The officers of the society shall consist of a president, two vice presidents, a corresponding secretary a recording secretary, a treasurer, and an auditor, to be chosen by ballot; and such other officers as the by-laws of the society shall direct.

ART. IV The first meeting of the society shall be held at Youngstown at the dwelling house of James Hillman, on the 18th day of January, A. D. 1819; at which nieeting, and at any future stated meeting of the society, the members present shall have power to make such by-laws and regulations as they shall deem expedient, for carrying into effect the objects of the **s**ociety

Aur. V. No salary or other pecuniary reward shall be allowed to any officer or committee of the society, for discharging their official duties; neither shall any contributions, in any form, he exacted by the society from its members, excepting as is herem provided.

ART. VI. No alteration shall be made in any o these articles of association, except at some stated meeting of the society: and all such alterations shall be submitted at one stated meeting and shall not be definitely acted up in until the next stated meeting of the society; and in h cases two thirds of the members present shall concur in such a teration.

#### BI-LMWS

Adopted by the Agricultural Society of the county of Trumbull, at their general meeting, on the 18th of January, 1819.

1st. There shall be two stated meetings of this society, in Youngstown, annually, until otherwise direct value of each premium to be awarded : shall regulate ed, on the third Thursdays in October and January, at ten of the clock in the morning. Not less than ten members shall constitute a quorum

2c. Special meetings of this society may be conven d by the president or the executive committee. Judge 1 Notice of all meetings of this society shall be given, society, by publishing the same in one or more newspapers. 11th printed in this state, at least fourteen days before

the time of any such meeting
Sd. On this day, and on the third Thursday in January, in each year hereafter, between the hours of Ho'clack, A. M. and 6 o'clock, P. M. the several officers of this society, and members of the respective committees, shall be chosen, to continue in office for

commended, that the assistance of the mar-designate one of their number to be their charman, mestic animals and manufactures by the commented cording sceretary.

4th. The president of this society, and in his absence, one of the vice presidents, shall be chairman of regularly manufactured, of what age and kind the executive committee. The president, for the time siness of examination or inspection. And the several being, shall, in all cases, have one vote, and in case of an equal vote, shall have the easting vote. He cates and duplicate or tificates of their several awards shall superintend the concerns of this society-shall and transmit the same to the president of the execucause the by laws and doings thereof to be carried tive committee, who shall, with the advice of the cominto effect, and shall sign all diplomas granted by the mittee, certify his approbation thereof, and celiver

5th. The vice presidents shall be chosen, with the officiate in that order-

orrespondence of this society, subject to the direction of the executive ecolopities.

7th. The recording secretary shall record the proceedings of this society and of the executive commitshall keep the seal of the society and use the same to the president, at the meeting in January, annually

5th. The treasurer shall collect and receive all the same on orders drawn by the auditor and certifithe regulations of this society. He shall keep regular accounts of all receipts and disbursements, in a book for that purpose, which shall always be open for agriculture; and if they shall find such communicathe inspection of the town and executive committees. He shall, previous to the annual meetings in January, fore the next meeting of this society. exhibit to the president a regular account of all reexhibit a list of the names of the persons in arrear, and the sums due from each : shall give bond for the faithful discharge of his duty, in such sum and form, and with such surely as the executive committee shall direct; and when his office expires he shall pay over third Thursday of October, yearly and every year. the funds of the society, and deliver the books of the treasury, to his successor in office.

9th. The auditor shall examine the vouchers and adjust the treasurer's account on the second Monday or January, annually, and report to the society at their stated meeting in the same month. He shall, also, examine and audit all claims on the society for con tingent or incidental expenses, and draw on the treasury for such sums as shall be found justly due.

10th. The general administration of the affairs of this society shall be vested in the executive commettee, which shall consist of the president, vice presi dents, the corresponding and recording secretaries the treasurer, auditor, and the regular chairman of each of the three awarding committees; any four of whom shall constitute a quorum. The committee shall meet at least four times in each year. The president, or in his absence one of the vice presidents. shall give notice to the members of the times and praces of such meetings. They shall have power to designate the objects for premiums and determine the the annual earthe show; determine the time of the meeting of the several awarding committees; and do all such other acts, consistent with the general and avowed principles of this association, as they may judge necessary for promoting the objects of this traishoot:

Hith No premium shall be awarded without a competition, unless the committee of awards shall deem he claim highly meritor ous.

12th. There shall be a committee on the cultivation and improvement of lands; a committee on the quan ity and quality of produce; and a committee on demestic spinials and manufactures. The premiums committees, shall be chosen to continue in once for one year, and until others are chosen in their stead.

All committees thall be chosen by nomination, unices and improvement of lands by the committee on that

These papers have already been published in the proposed by the executive committee shall be award-upper surface of a blade of wheat is formed into ala majority of the members present shall otherwise subject; those on the quantity and quality of produce Richmond Enquirer.

and shall give notice of such designation to the re- on that subject. Which committees shall severally consist of nine persons, ar five of v.lom shall be a quorum to ward the premiuns; and any three of whom shall be deemed a sufficient number for the buawarding committees shall make out and sign certifithe same to the person in whose favor the award wis made, or to the heirs or legal successors of such perdesignation of first or second vice president, and shall son, and to none other; which duplicate certificate shall be considered as an order for the payment of the 6th. The corresponding secretary shall conduct the money or the delivery of the thing awarded. And if no such person shall appear to claim any such primium within three months from the time of award, it shall be held to have reverted to this society

13th. There shall be a committee consisting of not fee in separate books; and shall keep the same at all more than five persons in each town in this county to times subject to the inspection of said committee : He superintend the concerns of this society in their respective towns. They shall distribute all seeds, sciens, under the direction of the president: He shall coun-plants, animals, books, &c that may be committed to tersign all diplomas signed by the president: He shall them for that purpose. They shall examine any imkeep a record of the names of the members and of the provements on lands offered to be entered for preofficers of the society, and deliver a list of the same miums, and if in their opinion the improvement is so important as to be entitled to an examination by the committee on the cultivation and improvement of monies due and belonging to this society, and pay out lands, they shall give said committee notice, and it shall be the duty of the said committee to attend for cates made by the awarding committees, pursuant to that purpose. They shall receive all communications which shall be offered to them in writing or other wise, respecting experiments or improvements in tions sufficiently meritorious they shall lay them be-

14th. There shall be a committee of publications ceipts and disbursements of the year, approved and consisting of five persons, whose duly it shall be to signed by the auditor: And at the same time he shall superintend and correct whatever is designed for the press, and they shall have access to any and all the papers of this society.

15th. The annual dues of the members of this society shall be paid to the treasurer on or before the

16th. In all cases when the president nor either of the vice presidents shall attend as members of the executive committee, the members attending may designate one of their number to preside for that meeting.

17th. All officers in this society shall be elected by a majority of the votes given in.

> PROPER CALCO FOR THE AMERICAN FARMER.

PROCLEDINGS OF THE AGRICULTURAL SOCIETY OF ALBEMARLE.

Papers communicated for publication by the Corresponding Committee \*

### On Hessian Fly.—No. 1.

READ, NOV. 1, 1817. Bremo, October, 1817.

Sin,-Believing the following facts to be new in the natural history of the Hessian Fly, I deem them worthy to be communicated to the Society :-

1st-That this destructive insect deposites its eggs on the blades of the wheat indifferently, at from half an inch to three inches from the main stack, or con-

2d. That they remain upon the blade, in the egg state, from 5 to 7 days at least:

And 3d - That they are hatched into the worm or

maggot on the blade.

That the egg is deposited on the leaf or blade of the wheat is discoverable by close examination to the naked eye; but may be put out of all dispute, to the dullest sight by the aid of a magnifying glass. The

fingers and thumb under a considerable pressure. The shape of the egg is cylindrical rounded at the ends, and at first in colour and appearance resembles a piece of amber, but as it approaches to hatching, assumes a redder east. On the 9th of October, I first discovered the eggs on a piece of Lawler, or fly proof wheat, which had been sown as early as the 22d of September. The plants at that time, generally had three leaves, and there seemed to be a manifest preference in the flies to place their eggs on the second or middle blade, but they were found indiscriminately scattered upon the surface of this leaf from half an inch to three inches from its point of contact with the central shoot in several instances, as many as forty eggs were counted by the aid of a glass on a single

Particular eggs which were identified from day to day until they hatched, were found to remain upon the leaf the shortest period of time, five days, the longest seven. How long they had been deposited when they were first discovered is uncertain, but it is presumed some days, as the flies appeared in numbers out of all proportion small to the vast number of eggs. In two instances only were the eggs discovered at the instant of their being laid by the flies, and in both of these cases the plants were destroyed in removing them to the house to subject them to closer examination .-And thus the attempt was defeated to fix the period more definitely, that the egg remains exposed on the leaf.

As soon as the eggs hatch, the worms commence their journey down the blade to its point of contact with the main stalk, and then down between the boot and the embryo stalk, which it envelopes to the union ry remedies if applied in time, and the horse of the boot and stalk at the crown of the plant. Some of the worms were detected in the act of moving down the blade,-but for the most part, after the disappearance of the eggs from the blades. By stripping gents to cleause the mouth, &c .- alum, saitdown the boot, the worms were found in a state so petre, coperas, vinegar, decoctions of oak minute as scarcely to be discoverable to the naked bark, of the root of the iron weed, &c. &c.; eye, lodged near the root, just at that part of the plant which is the seat of all their mischief and where they are found in the subsequent crysalis state.

When they have once placed themselves in this situation they are clearly beyond the reach of all remedies-but the fact being established that they remain from five to seven days at least on the blades of the wheat, seems to hold out some prospect, that means may be resorted to, which will at least diminish if not entirely destroy them. May it not be an experiment worth trying, to watch the progress of the flies, and as soon as they are found to have deposited their eggs to graze the crop closely off?

There are many difficulties which present themselves to carry this suggestion into practice upon a large scale, but against so great an evil a partial remedy is better than none—if successful, possibly it may be found capable of extension sufficient for the object.

Publications have already appeared, stating the exemption of grazed wheat, from the wide spread depredations of the fly, last spring-but my knowledge of the insect at that time, not extending further than the crysalis -a state in which they are so manifestly inaccessible to any remedy that would not extirpate the plant, my mind naturally referred the effect to some other cause. Now it is clearly to be comprehended, that this destructive insect may have been devoured in the egg state, with the leaves of the

J. H. COCKE.

PETER MINOR, Esq. Secretary of the Agricultural Society of Albemarte.

### Occasional Extracts.

27th. Nov. 1819.

the American Farmer, your attention invited to repeal all the laws for the speedy recovery of think, answer the purpose; indeed I have no the subject of reclaiming warshes. You would rents, when the property had been let for the doubt of it, as it is excellent for getting out

not be disturbed by drawing the blade through the deavouring to collect as much information as of our population for a considerable extent, possible upon this interesting operation. It is quite along our sea-board, and which will, ere becoming daily more important to us.

A SUBSCRIBER.

Eastern Shore of Va.

Near Frankfort, Ky. 8th. Nov.

will be but little short of a medium crop-mine practicable.

is fully one.

Have you in your county the dreadful malaly which affects the horses in this state, and in the state of Ohio as far as I can learn, and of your papers, (20th) an inquiry relative to a which, in many places, has been extended to the Machine for breaking up ears of corn. A few cattle and hogs ?- I mean the sore tongue,-It . ommences with white blisters on the tongueit becomes raw in a few hours, and extends to park. It somewhat resembles a Couce Mill. It the mouth and lips—a great deal of saliva is discharged—the horse if not relieved becomes for breaking ears of corn. incapable of eating-the tongue rots off, and death ensues. It is attended with fever and costiveness. It is generally believed to be contagious, although it is admitted that some horses have not taken the complaint, that have been fed with those that had it, and many have taken it that have never been so exposed. It is considered completely within the power of ordinanot used hard-purgatives are used by somebleeding by others—but generally some astrinare used by many, the three former most geneally. The power of those three, and assare tida, separate or combined, have been tried on the int of the bridle as a preventive, and used with success. As soon as I heard it was in this eighbourhood, I took measures to keep my horses from those that had it, and to have them regularly fed and salted. I have so far escaped, but this may be for a time only.

This disease was in this state and Tennessee in 1801 and 2. I was traveiling and my horses had it, but it was not as general nor as viruent in its symptoms as this year. I then heard of no fatal cases. Is this disease prevalent in

other parts of the Union?

Prince George's County, Dec. 4, 1819.

connected with the object of the American Farways be limited without attention to it. I all about 10 miles from your city. I understood lude to the necessity of impressing upon land. It to be of cast iron, on the principle of the holders, the great advantages to be derived plaster breaker, and erected order the impresfrom leasing lands for a term of years, over sion that corn used in this way makes a most that of renting for one year; with proper excellent and economical food for any kind of restrictions, and requisite arrangements for stock. Mr. Lyon made the experiment some the improvement of a worn out soil. So the years since, and found it essentially serviceroughly am I convinced of the incalculable ad-lable. vantages to be derived from a change in the present mode of renting land, both to the landlord and tenant, that I almost think the state MR. SKINNER,-I saw in a late number of Legislature could not do a better act, than to confer a particular favour upon myself, and a short time of one or two years. It is this systemer seed.

and the eggs are so suck in the furrows, that they will number of other subscribers and readers, by en-1tem that is depriving us of all that valuable part long, leave our society in the worst possible state, consisting of those who are very rich, and those who are extremely poor; and alt history teaches us that this condition of society does not endure long, it either yields Mr. Skinner .- We are still without rain to domestic intrigues or foreign invasion. For--such a drought was never known here. I tunately for us it is very limited in our country, nevertheless believe the crops, in this county, out confined as it is, we should get rid of it if

Harper's Ferry, 27th Nov. 1819.

MR. SRINNER-I have just observed in one years since a cast iron Bark Mill was invented, which has been found very useful for grinding not too expensive, it might be found useful also

Washington, 4th Dec. 1819.

MR. SKINNER,-Noticing this day your inquiry, "whether any mill, or other machine, has been invented for breaking Ears of Corn-

Cob and all, without shelling"-

I with pleasure inform you I have been using such for many years, and I consider them invadable to those who feed their scock much on orn-besides they answer admirably for breakng Plaster, preparatory to its going into the hopper for grinding. The Iron Screw will cost about \$40, the Millwright's bill ought not to be more than \$20 for attaching them to the machinery of any Mill-mine have been made and put up by my own smiths and carpenters, and are to be seen in my mills at Mount Airy, Richmond County, and at Neaosco, near Dumfries, Va. as also in my Middlebrooke mills, (late Lingan's) in Montgomery County, Md.on the road from this to Fredericktown. There is a model, (though never patented) in Dr. Thornton's nands at the Patent Office, sent him by Mr. Thomas T. Page of Va.-Yours, &c.

JOHN TAYLOE.

Frederick County, Md. Nov. 30, 1819. MR. SKINNER,

Dear Su,-in No. 35 of the Farmer you r-quest to be informed whether "any mill or other machine has been invented for breaking MR. SKINNER .- There is a subject closely up ears of corn, cob and all without shelling. being at Major Robert Lyon's on Sunday last mer, which I wish you to take in hand, as the the 20th inst. he informed me he had just put progress of agricultural improvement must al- p such a machine in his mill on his estate

Respectfully,

Your obt. servt. W. V. B.

P. S. The patent cast iron bark mill will, I

Mr. Bordly is I think the inventor of the as a remedy, but it is a hazardons one, and if not political animosity exists between Mr. Binns (as the after writing thus far, to try the strength of the cob by boiling, which I have had done; it has a strong taste, but I do not believe it can be chicken is certain; she therefore recommends boiled to a pulp,—it may nevertheless be nutricious. I have not seen in your useful paper
effected these several ways:—First, by keeping credit on the various artists who executed the
any description of the threshing machine lately
the young poultry up till the sun drives the work. We have seen nothing of the kind supeexhibited at the form of Robert Smith, Esq. Have you seen it, and what is your opinion up before the worm rises. Second, by feeding The writings and the arms of the different states thereof ? Is it likely to get into general use? Excuse the liberty I have taken and the trouble I put you to.

Cweil County, Dec. 2, 1819.

MR. SKINNER,

wishes for breaking the cob and corn. It is a plete. The machinist was at the expense of bringing the mill 40 miles by land, and of preparing all the timber and putting the machine into operation. It is simple in its construction, and not liable to be deranged. I feed my horses and cattle from the mill. - I cannot recollect the name of the man who erected my Baltimore can inform you.

A ote by the Editor. - The above information comes from the pen of a gentleman whose name is withheld under general and positive instruction, never to publish it without his consent-We are not insensible to the loss which we and the publick experience in his indisposition to write for the Farmer -We have procured a drawing of "John Rongens' and Jos. Demuno's improvement of the corn and cob mill," and an engravcularly of the friend who made the inquiry, and for the information of our subscribers generallycost \$35. It is possible it may be inserted next week, but it is more probable that we shall be compelled to make it give place to several other engravings that have been for some time proposed.

Queen Anne's County, Nov. 15, 1819.

Mr. Skinner-I send you some remarks of my much esteemed aged and experienced relation, Mrs. D. D. on the subject of gapes in poultry, after reading in her presence your queries respecting the cause, and your tobacco smoke remedy, &c. But before I proceed, I cause of gapes.

poultry, and swallowed alive in such quantities, as to prevent their being killed by the juices of the stomach, before they crawl up the throat count a taste similar to that of the effluence of barkstated she once saw the worms extracted from same efficacy? the pipe, by means of an elastic wire, which

the wire is pressed into the pipe in such a way the paper from which the following is copied. as to stop the breath too long, the death of the

the healthiness which all housekeepers know belongs print of the Declaration of Independence." to a new daughill-Fowls are always raised with more case and success where none have been raised before. Again, by this practice of ploughing up and removing the surface of old dunghills, another object mill, nor that of the patentee-Some farmer of will be gained, to which even the most thoughtless farmer begins to attach some little importance-It would increase the quantity of manure.

Editor Am. Farm.

### Singular effect of Peruvian Bark.

A French merchant, at Guavra, named Delpech, in fever. After the first day he found himself much better, though he had taken no medicine; but he was surrounded with an atmosphere of cinchona which appeared very agreeable to him. In a few days he felt himself quite recovered without any medical treatment whatever. This unexpected success led M. Delpech to make some other trivals. Several persons, ill of fever, were placed successively in his magazine of cinchons, and they were all speedily cured, simply by the effluvia of the bark.

In the same place with the cinchona, he kept a bale of coffee, and some bottles of common French brandy. will tell you she indulged the liberty of " shak. In some time M. Delpech, when visiting his magazine, ing sides" a little (which old ladies generally observed one of the large bottles uncorked. He susclaim) at your wild conjectures respecting the to examine the quality of the brandy. What was his astonishment to find it infinitely superior to what it She stated the gapes are occasioned by little had been!-A slightly aromatic taste added to its red worms which are eaten greedily by young strength, and rendered it more tonic and more agreeable. Curious to know il the coffee had likewise changed its properties, he opened the bale, and roast. ed a portion of it. It was more bitter and left in the and got into the windpipe, which gives them The bark which produced these singular effects was that uneasy and fatal disorder—the gapes. She fresh. Would the cinchonaof commerce have the

clover seed rake. A thought occurred to me skilfully applied will give instant death; for if Editor of the Democratic Press) and the Editors of

"The new print of the Declaration of Indeworms below the surface of the ground, and put rior to the engraved portraits which adorn it. them so well before let out, as to remove the are elegant and highly ornamental. The whole desire to eat them in such quantities. Third, of the signatures, with one exception, appear to by removing the surface every season before have been originally well written; and the fac hatching time, as by so doing the worm will similies are handsomely executed. The pubbe carried from the poultry yard, as this is the lisher has exhibited, in this expensive work, place where the worm so much abounds ;- much enterprise and perseverance, and has fully Sir,—I have for many years been in posthese are the means invariably practised by her, redeemed the pledges given in his proposal in session of an iron mill, which fully meets my and very great success repays her labours. If relation to it. Upon the whole, as a specimen these observations are considered sufficient to of the progress and perfection of American art; patent machine upon the same principle as the explain the cause of the malady, they are at as a state paper inimitably penned, and destiniron bark mill. I gave for it about 70 dollars, your option. I remain your highly gratified ed to unfading immortality; and as an ornabut in this charge I paid for the erection com-subscriber,

W. R. unent not less beautiful to contemplate, than inment not less beautiful to contemplate, than instructive to read and study, we recommend \* This ought to be done by ploughing off the sur-levery American family, who can spare the face; it would cleanse the poultry yard, and give it means, to procure a copy of this truly splendid

Frank. Gaz.

### FARMER.

BALTIMORE, FRIDAY, DECEMBER 10, 1819.

A STRANGE MISTAKE-The Editor was called from home a few days last week by his public duties .-1806, had occasion to receive several travellers, inha. On leaving home he sent to the Printer amongst other bitants of those countries. The apartments destined matter, a volume of the Spectator, intending that he ing of it shall be inserted for the satisfaction, parti- for visitors being filled, and the number of his guests should insert the number now published, on the last increasing, he was under the necessity of putting se-page of this paper .- The object of which is to illusveral of them in rooms occupied by cinchona. Each of trate by a beautiful story, the importance of planting; them contained from 8 to 10 thousand pounds of that instead of which, by some mischance a paper was scbark. One of his guests was ill of a very malignant lected on Theology and other abstruse subjects, in which the Editor of this paper does not presume to be learned.

### On the use of U.ven in Husbandry.

We propose to devote a considerable portion of some succeeding numbers, to the publication of the intersting facts and reasoning, we have lately collected; to shew the advantage that would result to the Agricultural community, by the substitution of Oxen, in place of then is, for the common purposes of Husbandry.-The more we examine and reflect upon the subject, the more we are convinced of the justice of Mr. Madison's suggestions on this point, to be found in the 178th page, of this volume, commencing with the declaration that he could "not but consider it an error in our husbandry, that oxen are so little used in place of horses."

In the course of these publications, engravings will be introduced, to shew the different manner of gearing them in different countries,

Present Prices of Country Produce in this Market.

Actual sales of Wheat-RED, \$1.6-WHITE, \$1.10 to \$1 12-Conn, 56 to 38 cts - Rie, 52 to 55 cts .-Fastern Shore Oars, 45 to 48 cts.—Har, per ton \$17 to \$18-Straw, do. \$11-Country Oars, 56 cts. was twisted like a screw into the pipe and drawn out, bringing with it three and four Gazette, the following notice of the splendid Print Maryland do per bushel \$1 123 - Pours, firesh, per worms at a time, until the number of thirty was recently published in Philadelphia. More is not said hd. \$6 - Flours, from the wagons, \$5 75 - Wursker, extracted from one chicken, and immediately the chicken eat heartily, and went off well which had refused food before; she stated this be known to our readers, as it is to us, that a bitter sale price in barrel, \$1.50-Retail do. \$1.50-Retail do

### PRICES CURRENT

### AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Revised and Corrected		y Inur	
	bbl.	17 1	
BEEF, Northern mess -	001.	15	- 1
No 2		13 50	- 1
Bacon,	lb.	16 18	20
Butter, Forkin		33	20
Coffee, first quality, -	'	27	23
Colton,	1	27	1
Twist, No. 5,		45	
No. 6 a 10,	ì	46 53	50 80
No. 11 a 20, No. 20 a 30,	1	80	1 20
Chocolate, No. 1,	Ì	33	
No. 2,		28	
No. 3,	1.07	25	22
Candles, mould,	pox	18	19
dipt,	1	45	scarce
Cheese, American,	lb.	10	15
Teathers,	1.	60	65
Fish, cod, dry	qtl bbl.	3 50 2 75	retail
herrings, Susquehannah, mackarel, No. 1 a 3	gor.	9	12
shad, trimmed,		7 75	7 87
Flour, superfine, -		6 50	7
fine,	bbl.		6
middlings,		4 50	5 4 25
rye,	one	4 a none.	4 ~0
Flaxseed, rough, cleaned,	bus		1
Flax,	lb.	do	1
Hides, dryed,	1	12	
Hogs lard,	i	12	1
Leather, soal,		25 62 1-2	
Molasses, Havana, New Orleans, -	gal.	75	
- sugar house,		1	1
Oil, spermaceti,	gal	. 1 50	
PORK, mess or 1st quality, -	bbl		00
prime 2d do		16 a	17
cargo Sd do	ton	14 a	15
Plaster,	bbl		5
Rice	lb.	(	3
Spirits, Brandy, French, 4th pro	ofjgal	. 2	3
peach, 4th pro	011	1 20	
apple, tst pro Gin. Holland, 1st pro		1 50	
Gin, Holland, 1st pro do. 4th pro			1
do. N. England		50	0 6
Rum, Jamaica,		1 5	
American, 1st pro		7	
Whiskey, 1st pro	lb.	1	0 62 1- 8 2
Scap, American, white, do. brown, -	15.		9
Sugars, Havana, white,	.		y
brown,		14 5	
loaf,			5
lump,	lb.	1 _	0 4 2
Salt, St. Ubes,	bu		5 1
Liverpool, ground, Shot, all sizes,	, l <sub>lb.</sub>		0
TOBACCO, Virginia fat, -	cv		
do. middlings,			60
Rappahannock,		5	5
Kentucky,	1		25 7
small twist, manufactured	, lb		50
pound do TEAS, Bohea,	_	1	63
Southong,	- ին	. }	75 a 1
Hyson Skin			75 a 1
Young Hyson, -	-		25 a l
Imperial,			75
WOOL, Merino, clean,	-		80 40
unwashed, - crossed, clean, -	_ \		65
unwashed, -		1	35
common country, elean		1	37
unwa		1	25
śkinner's, -	- 1	Ţ	<b>3</b> 3)

FROM THE SPECTATOR.

Hic gelidi fontes, hic molka parata, Lycori, Hic nemus, hic toto tecum consumerer avo. VIRIL. Ecl. 10. v. 42

Come see what pleasures in our plains abound; The woods, the fountains, and the flow'ry ground Here I could live, and love, and die with only you.

Hilpa was one of the hundred and fifty daughters of Zhaph, of the race of Cohu, by whom some of the learned think is meant Cain. She was exceedingly beautiful; and when she was but a girl of threescore and ten years of age, received the addresses of several who made love to her. Among these were two brothers, Harpath and Shalum: Harpath being firstborn, was master of that fruitful region which lies as the foot of Mount Tirzah, in the southern parts of China. Shalum (which is to say the planter, in the Chinese language) possessed all the neighbouring hills, and that great range of mountains which goes under the name of firzah. Harpath was of a haughty

It is said that, among the antedduvian women, the daughters of Cohu had their minds wholly set upon riches; for which reason the beautiful Hilpa preferred Harpath to Shalum, because of his numerous flocks and herds, that covered all the low country which runs along the foot of mount Tirzah, and is watered by several fountains and streams breaking out of the sides of that mountain.

that he married Tillpa in the hundreth year of her age; and, being of an insolent temper, laughed to scorn his brother Shalum for having pretended to the beautiful Hilpa, when he was master of nothing but a long chain of rocks and mountains. This so much provoked Shalum, that he is said to have cursed me head if ever he came within the shadow of it.

From this time forward Harpath would never venture out of the valleys, but came to an untimely end in the two hundred and fiftieth year of his age, being drowned in a river as he attempted to cross it. This shall in my next paper give the answer to it, and the river is called to this day, from his name who perished in it, the river Harpath: and, what is very remarkable, issues out of one of those mountains which Shalum wished might fall upon his brother when he cursed him in the bitterness of his heart.

Hilps was in the hundred and sixtieth year of her age at the death of her husband, having brought him but fifty children before he was snatched away, as has been already related. Many of the antediluvians made of State, Treasury, War and Navy, published love to the young widow, though no one was thought the 27th of May, 1819-" That all claimants Shall have their business attended to, by transafter the death of Harpath: for it was not thought mitting their papers, without employing agents decent in those days that a widow should be seen by in this city," I have uniformly and promptly a man within ten years after the decease of her hus-delivered over to the proper officer all papers band.

Shalum falling into a deep melancholy, and resolving to take away that objection which had been raised against him when he made his first addresses to Hilpa, began, immediately after her marriage with Harpath, to plant all that mountainous region which fell to his lot in the division of this country. He knew how to adapt every plant to its proper soil, and is thought to have inherited many traditional secrets of that art from the first man. This employment turned at length to his profit as well as to his amusement; his 00 mountains were in a few years shaded with young trees, that gradually shot up into groves, woods, and forests, intermixed with walks and lawns and gardens; insomuch that the whole region, from a naked and desolate prospect, began now to look like a second paradise. The pleasantness of the place, and the agreeable disposition of Shalum, who was reckoned one of the mildest and wisest of all who lived before the flood, drew into it multitudes of people, who were perpetually employed in the sinking of wells the digging of trenches, and the hollowing of trees,

for the better distribution of water through every part of this spacious plantation.

The habitation of Shalum looked every year more beautiful in the eyes of Hilpa, who, after the space of seventy autumns, was wonderfully pleased with the di-tant prospect of Shalum's hills, which were then covered with innumerable tufts of trees, and gloomy scenes, that gave a magnificence to the place, and converted it into one of the finest landscapes the eye of man could behold.

The Chinese record a letter which Shalum is said to have written to Hilpa, in the eleventh year of her widowhood. I shall here translate it, without departing from that noble simplicity of sentiments, and plainness of manners, which appear in the original.

Shalum was at this time one hundred and eighty vears old, and Hilps one hundred and seventy.

" Shalum, Master of Mount Tirzah, to Hilpa, Mistress of the Valliss.

" In the 788th year of the creation.

" WHAT have I not suffered, O thou daughter of Zilp th, since thou gavest thyself away in marriage to my rival? I grew weary of the light of the sun, and contemptuous spirit; Shalum was of a gentle dispohave ever since been covering myself with woods and
sition, beloved both by God and mansition, beloved both by God and manwailed the loss of thee on the tops of Mount Tirzah, and soothed my metancholy among a thousand gloomy shades of my own raining. My dwellings are at present as the garden of God; every part of them is filled with fruits and flowers and fountains. The whole mountain is perfumed for thy reception. Come up into it, O my beloved, and let us people this spot of the new world with a beautiful race of mortals; Harpath made so quick a dispatch of his courtship, let us multiply exceedingy among these delightful shades, and fill every quarter of them with sons and daughters. Remember, O thou daughter of Zilpah, that the age of man is but a thousand years; that beauty is the a maration but of a few centuries. It flourishes as a mountain-oak, or as a cedar on the top of Tirzah, which in three or four hundred years will brother in the bitterness of his heart, and to have fade away, and ever be thought of hy posterity, unprayed that one of his mountains might fall upon his less a young wood springs from its routs. Think well on this, and remember thy neighbour in the meuntains."

Having here inscrted this letter, which I look upon as the only antedibuvian billet-doug now extant, I

sequel of this story.

Adjt. & Insp. General's Office,

October 27, 1819.

NOTICE.

Under the arrangement of the Departments which have been enclosed to me. This course I shall continue cheerfully to pursue; hut it is impossible to acknowledge the receipt of all such papers, and I do not feel myself liable to account for any vouchers or communications which do not belong to the files of this office.

I give this notice, as a general answer to the many correspondents who avail themselves of my services in this way.

D. PARKER, Adjutant and Inspector General

PRINTED EVERY FRIDAY AT \$4 PRE ANN. FOR JOHN S. SKINNER, EDITOR, At the corner of Market and Belvidere-streets,

> BALTIMORE, By JOSEPH ROBINSON.

## AMERICAN FARMER.

## RURAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

" O fortunatos nimium sua si bona novint "Agricolas." . . . VIII.

Vol. 1.

### BAL'CUNORE, ERIDAY, DECEMBER 17, 1819.

Num. 39.

### AGRICULTURAL.

FOR THE AMERI'AN FARMER.

On the advantages to be derived from the more

### GENERAL USE OF OXEN.

FOR THE COMMON PURPOSES OF

### AGRICULTURE:

AND ON THE BEST MODE OF GEARING THEM.

Illustrated by an Engraving.

No. I Port Tobacco, 1st Dec. 1819

MR. SKINNER, Sir, -I have often beery, in the few excursions I have made through this and ten ghboring state to the south, with mac r gret, sometimes indeed, with mingled pain, with what neglect, the habit of treating their labouring cattle. Of the several species, the horse generally fares best-there is something so sprightly and attractive in his constitution, that he imperceptibly was the regard of his his share, among his fellow labourers, of his owner's kindness and attention. The generous qualities of the pleasure horse, and the proud vivacity of the courser, begets in men an affection for the whole race, extending even to the homely drudge that drags the plough, to the disparagement and prejudice of the ox, the ass, and the mule, whose claims are in many respects much superior.

These observations have induced me to make some enquity into the relative merits of the several species of beasts of burthen used in agriculture, and to reflect upon the manner of treating and working them to the

greatest advantage.

There are four points of view in which the value of labouring cattle may be compared and estimated; their first cost, their work, their necessary food, and

nt'lity after work n; .

We have in our country only three species of beasts of hurthen in common use, the horse, the ox, and the mule: for, I believe, the ass is no where in common use. The pric of these animals, like every thing else, varies considerably with time and place-and I may add, that their prices have not, always either, been graduated simply by the demand for them, or by the:r real utility; but by a sort of fashion or caprice. I have honds, a good mule would command the price of more than a pair of well broke oxen. But, laying aside this kind of temporary or neighborhood whim. I thank it may be assumed as a general relative price current, of these labouring animals, that a good work ox can third less than a mule, equally good of their kind

Neither of these three species of animals are fit for uscless infancy, the horse requires very particular at p rform the greatest amount of heavy labour in the to be decidedly the best for all agricultural purposes; tention. During the winter season he should have shortest time and at the least expense; Because, for and indeed, the point seems to be admitted by the good rack food. The mule requires less attention, but if not more carefully raised than an ox, his size an powers will be very inferior. The ox requires only common pasture during the summer, and to have the advantage of the farm-yard shed, with hay or straw in the winter. It is admitted on all hands, that the ox makes double the quantity of manure during the same time, of either of the other animals; owing to his cosumption of a greater mass of coarse food, which

tas n in by the horse. From the system or husbandry the improvement of the capacity of the animal, for serprevient in the lower parts of this and the state of vice, is too often wholly overlooked. Virg mia, where cattle have the range of the extensive marshes bordering on the tide waters, o may be asserted with confidence, that the rearing of a three year old steer will not cost the farmer one third as much that there is no hing in our climate or country adverse as to raise a horse or mule to the same age. Hence it to the development of the greatest excellencies of the appears, that a farmer, with the same cost and care, can have two or three teams of oxen for one of horses there spoken of Columbus, or the American, appears or mules, with a proportionate increase of manure.

The great improvement in the discipline and manage equalled, and in many surpa s. d by the ox. The docility and sugacity of the horse is very remarkable, indeed, in some respects surprising; but that of the ox is no less so. It has been noticed in all countries and in the most remote ages - we are told in scripture, that "the ox knoweth his owner." And this patient wilang labourer awakened a sympathy so lively as to incontempt, and even harshness, my countrymen are in duce the Jewish lawgiver to enact a special provision in his behalf; for it was declared as a law to the childreo of Israel, that "Thou shalt not muzzle the ox when he treader out the corn? while, on the oth r band, it would seem to be a fair inference from the master; and thus, too often, comes in for more than prohibition, ("Thou shalt not let thy cattle gender with a diverse kind,") contained in the nineteenb ox Columbus, they are, in general, nearly of the same chapter of Leviticus, that the ugly mule race was much make and proportions. They are long legged, tall, despised or wholly unknown in Judea.

With the same measure of attention and kind treatment, the ox is certainly the most docide and tractable travel day after day, for a month together, with heavy of three several species of beasts of burthen. If he has loaded carts much faster than the common west counnot the gar ty of the lorse, neither has he that fretful restiveness of temper which roders the horse, at times. entirely unmanageable. Neither is the ox ever influruced by the sulky perverseness of the mule. The ox has one excellence peculiar to himself—he is steady, willing and firm to the last—he never balks—at a steep pach, or heavy pull, a yoke of oxen are the sheet anchor of the team of they cannot move forward, they will at least hold their ground to the utmost of their

re gth.

As to the question, which of the three species of labouring quadrupeds are best suited to our hot summers, and to our climate in general? It can only be answered by experience and observation—it is believed, however, that so far as we may be allowed to adluce the experience of other countries, there can be no doubt upon the subject. In various parts of India with n and near the tropics, the ox is used for all purposes, for travelling and riding as well as heavy laknown times when, and even now, in some neighbor-bour. In all parts of Spanish America the ox is used as a labourer; and great numbers are imported into the West Indies annually, from the Spanish main, as beasts of burthen

But the ox is said to be so slow and unwieldy in his pace.—It must be admitted, that, as a racer or a fleet be purchased for one half the price of a horse, and one traveller, he is far inferior to the horse in all countries and under every state of discipline and improvement. But with the agriculturist, the sole enquiry, upon this labour sooner than three years old. In that interval of subject is, which of these three kinds of animals can some grain, be carefully housed and well provided with the purposes of hard work neither of them can be push-most skilful and intelligent farmers who have turned

ed faster than a common walk

Neat cattle are so very valuable in various ways, that, in selecting a stock for rearing, almost all their this valuable animal to the cart or plough; the Enuses are more attended to than that of their labour glish, which is that of our country, and therefore need In breeding horses we generally have but one object in not be described; the French; and the Spanish deview, that is, their capacity for service; but in rear-thods. They are each essentially different, and each ng neat cattle, the principal objects are to improve have their modifications. The question as to which the quality and quantity of every part of the body of of the three is the most jud cious and best, involves, the animal, as well as to increase the quantity of pulk in some degree, the comparative anatomy of the ani-

Judging from the account which you, Mr Editor, have given us in the first No of your paper, of the two large bullocks raised by Mr Barney, I am satisfied, ox in every respect whatever. Of the two bullocks to me from the draw ng of him, to be of the true aod best stock for all purposes; his legs were long in proment of the larse, and his active movements, have portion to his body, and he was much taller in proporgiven him a decided preference in many kinds of ser-tion than the English cattle that have been imported vice; but, as a strong lubourer, he is in all respects into our country as breeders; and his enormous weight is a proof, that cattle of such proportions are as eminently suited for fattening and for beef as any other, the English notion about short legs and broad buttocks to the contrary notwithstanding. From what I can learn the quantity of milk given by a cow is by no means governed by her external shape. Hence it would ppear that the proportions best suited for service may be particularly attended to without in the least deteriorating the breed in other respects.

The cattle of the great plains of Buenos Ayres, and

in the valleys of Chili are alike remarkable for their great activity and sprightliness. Except the sleepiness of countenance, expressed in the drawing of the make and proportions. They are long legged, tall, and have great facility of progression, a proof of which is the underiable fact, that the oxen of Buenos Ayres try teams of the United States. Quick movements cannot be expected of the round duck-legged Europeao breeds, with which the fine tall cattle of our country have been too often crossed and spoiled. It would seem, that, even in England, farmers are beginning to get out of the notion of their squat round pretty cattle. The ox is beginning to be attended to as a working mimal more than formerly; and, consequently his speed is considered as one or his excellencies. In some parts of England they have ox races; and it is sail, that some years ago an ox ran four miles over the course at Lewis, for 100 guineas, at the rate of fifteen miles the hour: this was certainly not one of the low waddling family

We are told that in India bullocks are used for the saddle and coach, and that their travelling oven are curried, clothed, and attended with as much solicitude. and much greater kindness than we bestow on our est horses. The Indian cattle are extremely ducile, and quick of perception, patient and kind; like the borses, their chief travelling pace is the trot, and they are reported by those who have ridden them often, to perform journeys of sixty successive days, at the rate of thirty to forty-five miles per day.

The ox may be worked to advantage from the e until he is ten or twelve years of a re, and can then be attened, and will make excellent beef. Upon the whole, in whatever point of view the several species of labouring quadrupeds be compared, the ox seems

their attention to the subject. There are three methods of yoking or harnessing not so thoroughly masticated, as the better kind, and butter-and, in carefully attending to these objects mal, and an enquiry to ascertain the seat of his greatthe seat of the strength of the bull, and has hours are his weapons of attack and defence. The chief vigor of the animal seems to be thrown into his neck for the "The Tucuman and Metaleza carts, at a little distance the greatest effect. The question is then, where and how the yoke should be placed on his neck, so as to of iron; its great coarse wheels are not less than eight enable him to exert his greatest power in propelling it forward?

It will be proper, in considering this matter, to attend to the ordinary position of the animal, and the attitude he assumes when provoked or urged to put forth all his powers, and to exert his greatest strength. When a bull stands quite disengaged and at rest, his for head rives backward from his nose to his horns at of brushwood, as fuel, tied on the top, and brought an angle of about forty-five degrees from the horizon; and his horns most commonly project forward at about crossing the plains in caravans of from thirty to forty a right angle with the line of his forchead. But when togeth r. On the journey the oxen are unyoked occa the animal throws houseif into an attitude of attack, and prepares to exert all his strength against an anta- to seek their food round about. Thus without any othgonist, his head is lowered near to the earth, his nose or provision than what is necessary for himself, the is bridled back, and his horns range nearly in a horn carrier pursues his way over a waste of thirty days or zoned line; and when he moves forward, his whole six weeks passage. From Buenos Ayres to Mendoza power is thrown up in his horns, which not unfrequent- the distance is nine hundred miles; and the journey is ly are snapped short off by the notent push, without performed in about thirty days in the least anjuring his neek. Hence it appears, that A similar description is given by Laborde, in his statisthe line of greatest force, as thus exhibited by the anitical view of Spain, of the ox carts and gear of Old and mal himself, is from the root of the borns, with the New Castile. And it would seem that a similar method neck a little depressed, passing below the middle of of gearing has long prevailed in some parts of France, the body. Another proof of this being the true line of from the following note to the sixth chapter of the first an ox's greatest fires, may be observed by the atti-book of Rabelais, treating of the inestimable life of the talle which oxen assume when yoked according to the Great Cargantia-" Let the four foremost oxen do the method of our country, and urged forward to exert all work, is a proverbial expression in the province of Poi their powers in draft; in such cases they uniformly don, where, not having horses enough to draw their depress the neck and head, and assume the attitude wagons and carts, they usually draw with three couple of the bull in battle. It has thus seemed to me to be of onen, if they go far and the way is bad. The lour strongly indicated by nature, that the point of draft for most, which are always the ablest, follow each should be attached to the nick as to ar as practicable other very close, but they are at a considerable disto the root of the horns; because to that point, when tance from the two theliers, that when the cart or wain I fe to the dictates of nature the animal directs all his powers when occasion calls it forth.

The American mode of yoking is open to many and very sulstant A objections; the first is, that the line of all is too high, and not in the line of the animal's be used force. If the bow be wide it admits of too much are yelled in this Spanish method; and I have been as fraction, and the yoke soon chafes the neck into a sore; the vessel of the neck, and thus do material injurya the Low be long it suffers the yoke to ship back near-ty of Burnes Ayres are r more than a month's constant by to the withers; if it be short it is apt to obstruct travelling from the interior, there is no such thing to the feed on of respiration and in hot weather, in y harever way the yoke be adjusted, according to our mode, it very frequently galls and makes the neck very

The Francisca page of word, of about one sixth of I not those hollows with a piece of woolly sheep-skin, when the team stops, to keep the cart balanced in a to answer the purpose of a soft pad or cushion. This hand easy yoke he braces to the horns with a small ong of leather, attaches the beam of his plough to

equipped for his Libour. This method seems to place the line of draft very marly where it should be; but, although much better then ours, it is hable to some objections. The pressee must, eccasionally, be too great on the front Lone

its position, length, or some other caose, the oxen according to our not thed, where the line of draft would give and the small. The two principal enemies to wheat are the jurious manner that ours too often do. As the yoke be higher and more in the rear of the animal.

On inspecting the plan of a yoke for working oxen a preventive to their pernicious effects, would be preventive to their pernicious effects, would be preventive to their pernicious effects, would be proventive to their pernicious effects, would be preventive to their pernicious effects.

South America, in his report, thus describes the ox paper, I am satisfi d, that if the yoke were placed and learts which cross the great pumpas of Buenos Ayres: purpose of enabling him to wield those weapons with moked like thatched cabbas slowly moving over the better than horses, for the cultivation of our corn fields niam—the whole machine is destitute of: mail or a bit leet in diameter; six oven, in general noble strong aninads, move it; the two front pair have a great length of coard by which they draw; and the load of the cart which on an average is not less than four thousand weight, is pretty nearly balanced on the axletree; the body of the cart is either covered with raw hide or thatch, made of reeds or straw; and with a collection from the westward of the pumpas, these carts are seen sionally through the day, and at might; and permatted

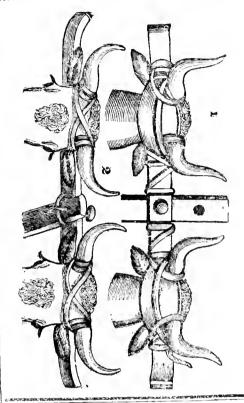
s set fast in a slough, these four, which are made to it, may draw out of the mire the two others, together with the wingon or cart?"

The oxen throughout the provinces of Buenos Ayres and Chili, and it is believed in all Spanish America sured by a careful observer, that the oxen not only in the narrow, it is apt to obstruct the circulation in move and support their labour with greater apparent ease; but, that among the hundreds that reach the cibe seen among them as a galled or sore neck. load of the Buenos Ayres carts, as stated by Mr. Bland, is poised upon the axietree, so as to throw very little weight forward upon the neck of the oxen; and to prevent even that little from being needlessly oppressive to the animal, and also to prevent the cart he im cantthe weight of the English yoke, across the firehead ing up and sliding the load out uch nd, there is tied to of his cath, having previously neatly hollowed out the end of the tongue, and also to the hander part of t'e entreme ties of it to fit the mould of the head, and the body, small sticks of wood which serve as props

hor zoned position. The arguments in favour of the Spanish method of iking are great, and seem to be unanswerable, where t'es maddle part of it, and the animal is completely the oxen are to be geared to a cart, or the draft is nearly level with or rather above the lody of the animal. But when genred for the pleugh, in this manner, there are some matters which must be attended The Spanish plough is so rude a machine as not to be worth describing, farther than to show how it of the skull, which is by no means of sufficient strength has developed an apparent inconvenience in this methto resist a great force, as is evanced by observing what od of yoking. Instead of a chain or trace fistened from a small stoke in that spot will bring the largest bul- he yoke to the nose of the plough-beam, the beam lak to the ground. This mode must also be attended itself is made barely of sufficient length to pass between rity, serving if permicious, as a warning, or if with considerable ancovenience, it it be not altoget the exen, and fasten to the yeld; the considerable ancovenience, it it be not altogethe exen, and fasten to the yeld; the considerable ancovenience, it it be not altogethe exen, and fasten to the yeld; the considerable ancovenience, it is ther impractical le for the thill pair of oxen, that have which is, that the line of draft being almost immedito bear up the prodegrous weight of the tongue of the arely from the heels of the animal to the root of his recording to the Spanish method, the yoke is place mose is clevated in an unmatural attitude, instead of pressions, I take the liberty of communicating of on the neck without a bow, and is made fast to the being brilled back and depressed into the position of its you the results of some experiments I have have of the horns by a long leathern strap. The yoke great boddy exertion: this however, it is evident, is been making, as also, the reflections to which is usually about a foot longer than ours, and owing to altogether the effect of the manner of gearing the oxidate have given rise.

est power. The reak is obviously and proveroially galls. Mr. Illand, one of the late commissioners to singly, which you have given in the fifth No. or your fastened on the neck in the Spanish method, without a bow, that oxen would be found thus geared, much

Annexed is a drawing of the Spanish method of yoking, from which the French mode may be easily un-NANJAMÓY. derstood.



FOR THE AMERICAN FARMER.

PROCEEDINGS OF THE ADDICULTURAL SOCIETY OF ALBEMARLE.

Papers communicated for publication by the Corresponding Committee.

No. 2.—Cultivation of Wheat. READ. Oct. 11th, 1819. Burbours-V'Ue, July 26, 1819

Sir, -- Wheat being the staple of the finest purions of the earth, whatever materially concerns its cultivation, is interesting to mankind. Any attempt to communicate information, upon tais interesting subject, however abortive it may be, will, in regard to the motive for which it origimates, be favourably received. A judicious collation of the results of different experiments-results which it behaves every farmer to make public, if attended with any peculialy, place within the reach of all, the best system of cultivation. Influenced by these im-

be of lasting benefit to human kind. It has fto acco crop was late, and we were at that wheat growing from my own seed, as from that been pursued with an eagerness, in proportion time fuishing its culture, I caused some thir procured from my neighbour. The last autumn to its importance, but unhappily as yet not twacres to be sown in the lawler wheat. The I made a great variety of experiments for the with a corresponding success. I have endea-product is superior to any crop I have seen. Al-purpose of ascertaining which of the means voured to contribute toy mite in this laudable though the fly appeared in the wheat, both in resorted to, was the most effectual antidote: undertaking, and herewith present you with the the sowing of 1817 and 18, yet it survived the and with the further view of ascertaining some

this section of the country in 1798. The crops being materially affected, we profited by the suggestions of our northern neighbours, among whom it had been destructive for several prois more generally known as Lawler) from his picion was excited by a few naked spots of a the exemption of one head, or at most two. friends in Fanquier. This wheat he asserted very limited extent. (a few yards square only) In addition to this in a fallow of 120 acres, the den, 18 in my corn land, about the middle of results. weighing 63 to the hushel. The whole product small quantities in every kind I cultivated, viz. effect; but is nevertheless useful in cleansing the lawler, the hearded, and the purple straw, the seed wheat. Therefore I am warranted in 10 hush. This wheat was near the middle of made it necessary that resort should be had to well worthy of imitation. a field containing about 100 acres .- All besides some perventive, if indeed any existed .- Proproof wheat, with the serious loss in the crop to this day has never had a head of smutty wheat vourable. of 1817, induced me to purchase one hundred on his estate, for hearded wheat, which, with that tember-then sow the ordinary kind, and finish with salt: then pouring the grain gradually in, tually produce beneficial discoveries. with the lawler; hoping thereby to guard against the imperfect grains with some cockleand grains the effects of the fly as well in the autumn as of smut unbroken, were seen swimming on the in the spring.

the fly; the lawler wheat which was sown early to be stirred as long as any thing would rise to as affected with the smut, in some degree. Ill commenced washing my wheat, I caused un-ments intended to be separate and distinct were conto that end I caused equal quantities of the the barn floor, which was then slacked, and lawler, and early wheat to be sown on the 27th when three or four bushels of wheat bad been of August, 1817, in a piece of land cultivated cleansed, the line was found to be sufficiently in the Indian pea; under circumstances every cool to be applied to the wheat: which was then way equal — The result was the entire destruction of the early wheat by the fly; while the added a peck of plaster to each bushel, and mer, the address of Mr. Law, President of the lawler wheat was so far exempt from its rava- proceeded immediately to sowing it. The ge Agricultural Society of Prince George's County. ges as to produce a good crop-Emboldened by neral result has been an exemption from the ile has brought together a variety of useful rethis experiment. I commenced seeding the last smut, except in very small quantities, when marks, which, while they show him to be a mun

attack without any apparent loss .- As yet, of the characteristics of this disease. First of the Hessian fly-It first appeared in therefore, the results of all my experiments | 1st. I sowed one seventh of an acro in lawler

surface—these I caused to be taken off with a The crop of 1818 was generally exempt from seive, so as to save the water-I caused it then produced a fine crop—the late sowing, a very he surface. The wheat was then taken out inditterent one, being somewhat rusted, as well and spread on the barn thor .- At the moment resolved to bring to actual experiment its rela-slacked lime, in the proportion of a gallon of founded. The salted wheat was not limed, and vice tive capacity with other wheat, to resist the fly: lime to the boshel of wheat, to be placed also on versa.

justify me in saving that it is substantially able wheat on the 13th September, as far as I could to confend with this formidable enemy to other perceive, entirely exempt from the smut, except wheats .- Any attempt to account by a satisfactive grains, which I rubbed in smut, - The tory hypothesis for this quality is entirely apart whole, save the product of the five grains, was cedling years, and postponed speding from the from my purpose, and therefore will not be exempt from the small - The product of the five 2 th August to the heginaing of October. The made.—The staple of this wheat is inferior to grains full of smut. 2). On the 17th of October, result of this was, to expose that which was none—its relative productiveness (though there sown last to the effects of the frost in winter, be a popular opinion to the contrary) is unques without smut—product save a head or two. and the fly in spring-and hence partial and monable as far as my experiments go-but there free from the smat. Sd. I sowed the same sometimes indeed a total loss ensued. An aw- are other objections of a strious kind, which lie wheat covered with smut-product excessively ful apprehension began to prevail that the fly against it-it is a later wheat than the purple smutty. 4th, I sowed the same wheat with was a clamity without remedy. This was at straw or bearded, by a week -!t will therefore smut, salt, lime, and plaster, project smutty. length mitigated, by a rumor that a wheat had not abide being sown late—as it exposes it to 7th. I sowed the same wheat with smut and been found which was fly proof. Mr. C. Hun-the rust-it has a strong disposition to the smat: plaster-product smutty.-6th. I sowed the ton, of Albemarle, brought some years past, a and I fear it is liable to what is called by some same wheat with smut and salt-product smutvery small parcel of wheat, which on account the sedge, by others the stads. Of this how ty .- 7th. I sowed the same wheat with small of its qualities, he called Columbian, (but which ever, I am far from being satisfied. My sas and lime product exempt from the smut, with

from actual experiment, resisted the fly. Anx for which I could no otherwise very satisfacto- whole except an acre or about that quantity, ious to test its truth, I procured 20lbs, in the rily account. On smut in wheat, I will now was safted, limed and plastered as detailed autumn of 1815, 2 of which I sowed in my gar- lay before the society, my experiments and their above ; the whole substantially exampt (except the acre) from the smut, while that shewed a October. Both were exempt from the fly, while my other wheat was partially affected. The was in the spring of 1816 in the early wheat, conclusion I deduce from these facts is, that alproduct of 2lbs, sown in the garden, was 54½ which induced me to examine my crop more misthough the quick lime is not a sovereign remedy, pounds—that in the corn field 239 pounds, outely; and it resulted in discovering it in yet it approaches it. That the salt has no such

I think it material to state, that I apprehend the lawler wheat, which was uninjured by the fiting by the suggestions of the best tracts from my observations that this process is, in unfly, was almost utterly destroyed; not production my reach on agriculture, I availed my-propitious weather at the time of seeding, raing above three bushels to the acre. The crop self (believing it the most effectual remedy) of ther unfriendly to its vegetation if sown shalof 1817 was in a good degree destroyed by the a change of seed as far as practicable.—I applied to a neighbour who adjoins me, and who mend ploughing it in, unless the weather be fa-

These bints which I respectfully offer to the and fifty bushels of the lawler; which with my of my own seed, I subjected to the following pro-society, if attended with no other advantages, own made 260 bushels. I resolved to com- cess; I prepared a ve-sel containing 20 gallous may attract the attention of some of the more mence seeding early in September with the in the shape of a half hogshead, and filling intelligent members to the interesting subject, lawler, and to continue it till the last of Sep- it two thirds with water, which I saturated upon which they are offered—and thereby even-

> Accept assurances of my respect, JAS. BARBOUR.

PETER MINOR, Esq. Secretary of the Agricultural Society of Albemarle.

\*This experiment was accidental. Two experi-

Baltimore, December 13th, 1819.

MR. SKINNER,

autumn about the first of September. As my ever I have pursued this course; as well in of observation and thinking, will tend to excite

with ideas. He has directed attention to the dizing liquid ? propriety of mercantile calculation in farming. and to the useful practices of deep ploughing. prigation, tree-planting, drill has andry, and an ong other things to the dairy .- On the last subject he makes some observations, that are m doubt novel to many of his readers, and that, in my opinion deserve a little comment. I adverthere to his recommending pewter or tre pans, as preferable to earthen or stone ware. He says they will produce more cream from the same quantity of milk. This he infers from these two principles; 1st. that galvanism favors the accumulation of cream; 2dly, that pewter vessels are better galvanic exciters than earther. or stone ware.

from the well known fact, that electricity will tant and necessary on a tobacco plantation as congulate milk. Every dairy woman expects to to be deemed indispensable,) with this view 1 see an unusal portion of her milk turned into Sushed my field intended for corn in the fall or a the market, they may be made to give a second clabber during a thunder gust. But this is often winter, with three horse ploughs six or eight erop. The other two are supposed to affect different effected without the milk's turning sour; and it inches deep, a practice for some time adopted kinds of soil; the red preferring clay; and the white is also a fact, that cream under the common with great advantage, in the spring it was cross sand or loam. Of the former, there is a variety, more pressure of the atmosphere, never rises so com-ploughed with the same ploughs and harrower pletely as after the acetous process commences with a large heavy harrow, containing 25 straight log potatoe. Of this variety, without any peculiar If congulation, then be preternaturally hastened leeth. (I mention this circumstance because I care, we have raised one hundred and eight bushels, either by galvanism, the use of rennet, or by think the straight teeth have several advantages on one quarter of an acre. assuringents, the further accumulation of cream over curved ones, they are not so apt to close ceases. If however, a galvanic action be slow for choke, and are more easily cleaned when ly excited and kept up, between the milk and they do.) After this it was checked for the purthe vessel containing it, there is no doubt that it pose of planting from 45 to 5 feet each way, bring these to maturity, it follows, that the other mewill accelerate that process by which the sac- the corn was dropped by a skilful hand, and thod, which continues the species you plant, and in charine matter is changed into an acerous con covered by withdrawing the middle tooth, from the perfection in which you plant them, is alone redition; and by this means favor the gathering of the cream. So far then as we regard the greater efficiency of galvanic action, the change from earthen or stone-ware to pewfer or tin pans, might be proper. But there are consequences resulting from the properties of those metals, that make this change by no means advisable. Both pewter and tin can be acted on by the factic acid, so as to render the milk very disagreeable to the faste. And the oxidation or rusting of the lead contained in the pewter, will dif-folious sings with a bare share, and afterwards fuse a deleterious poison through the milk. The entirely with the angle plough, an instrument ducts, were procured only by the most careful and tin contained in the pewter or on tinned ware. that I believe cannot be surpassed for the cultithough not so easily rusted as lead, or so noxious in its effects on the human system, yet gives the milk so had a taste, that this should condemn its use, without referring to the injurious properties it possesses.

It may perhaps be remarked in opposition to these statements, that these poisons are so di luted, and taken in such small quantities at a time, that they cannot prove permicious to health. This observation, specious as it may consequence of your request of yesterday. be, is not correct; for the most judicious physicians and chemists have long been proscribing earthen ware, glazed with any of the preparations of lead, from a place among culinary or dairy utensils; and that on account of evils arising from the lead even in this partially vitrifield state. They have frequently advised the use of stone ware as an innocent substitute for the other, because it is glazed with salt, and do-s yield to the action of the factic acid. I will at present conclude by merely observing. that if lead when a carry vitrified, is capable of exciting such just alarm, how much more dele-crops; and,

in others the important habit of using their sen- terious must be its effects, when exposed in it ses, for the purpose of furnishing their minds natural or metallic state to the influence of ox-FRANKLIN.

CHARLEST SPECIAL

No. 2 -Proceedings of the Agricultural Society in Prince George's County, Maryland-A their October Session, 1819.

OCTOBER 18, 1819. Sir-The great injury sustained from the excessive drought of the summer, by vegeta bles of almost every description, has prevented I presume any successful experiment since the last meeting of this society in the growth of plants. Immerged as I have been like my neighbours generally, in the culture of topacco, and not being willing to augment the physical plant, botanists count more than sixty varieties and force of my farm. I thought it expedient to attempt some labor saving principle, in the col-The first proposition seems to be a deduction ture of Indian Corn. (an article so imporsculle, an implement chaposed of the turce eth of an angle plough placed in a circular, instead of a diagonal beam, to the tail of which never seen a larger product from the acre, than four is placed a small harrow with three teeth to level the ridge made by the covering harrow, drawn shorty, which give much larger crops, and from y one horse .- Thus I performed in three days with two hands. (the dropper and the driver.) work that would have required the labor of ten abushels per acre. At Kuklathan, a similar soil and, five days; after the corn came up, it was ands ave days; after the corn came approximation of the usual way, by one or two good bashels in (a)

We need hardly remark, that such immense provation of corn in land, clear of stones and stumps; land thus prepared by early utlage requires not the aid of a hoe, another great save crop. ing in the labour of the cultivation: the product of the field thus managed, is superior to any I have seen this season in similar soil.

I am your obedient serv't. WILLIAM HEBB.

This communication is hastily sketched in

---FROM THE ALBANY ARGUS.

### Treatise on Agriculture.

SECTION IX.

Of the plants recommended for a course of crops (in the acre, D. 35. preceding section ) and their culture.

These are wheat, rye, barley, Indian corn, nats, suckwheat, peas, beans, turmps, pota oes, cabbages clover and chickory; but we shall tak them in the order in which they stand in the proposed rotation or I. Of the potatoe.

This plant is a native of America, and like other nuble things, has had violent enemies and zealous ands. When first introduced into France, it was abjected to the imperfect methods of analysis of that ay, and being supposed to yield some deleterious atter, was even proscribed by the government; but me, which rarely fails to do justice to the injured, re-established it there, and with the increased reputation of being the "manna of the poor," (1) of standing as an article of food, next to bread, (2) and for before cabbage, carrots or turnips; (3) and of yielding, by the acre, a crop of greater profit and more nutritive matter, than either wheat or barley. (4) Nor s this its whole praise; for besides its value as a .ood, it is of all vegetables that which, from the numper, shape and size of its roots, forms the best preputation for subsequent crops. (5) Of this valuable tweive species, which for agricultural purposes, may powever, be reduced to three; the red, the white, and that called by the French the quarantaine, or forty lays potatoe. The last is the least prolific; but may motwithstanding, deserve the preference with cultivators near great cities; because, besides being the first productive than any other of either species, and which is known (and we think degraded) by the name of the

Two ways are employed to propagate the potatoe; 1st, by sowing the seed; and 2d, by planting the root. By the former method, we obtain new varieties. or levive old ones; but as it requires three years to sorted to for a crop. The product is small or great, or enormous, according to the fertility of the soil and the labor bestowed upon its cultivation. We have hundred bushels; but the e are records of high auwhich, in justice to our subject, we offer the following

extrac s:

" A Altingham, in England. a sandy soil gave 760 le save 589 bushels; and a black rich loan, 1166

well timed cultivation; which we shall now proceed to indicate, under three different heads, Ist, the preparation of the soil; 2d, the choice of plants and mode of planting; and lastly, the treatment of the growing

1st. Of the preparation of the soil-

Give your field intended for potatoes, a good fall plougning, and in ridges, if the soil be clay. Leave it rough and open to the influence of the frost, during the winter, and as early in the spring as you discover

(1) Dictionaire de L'Industrie. Art. Pommecle terre.

(2) Experiments of Vaugelin and Percy, 80 parts out of 100 of bread are nutritive, of the potatoe 25, or

(3) "6 Killogrammes de pommes de terre equivaloiant 50 killogrammes de navet." Yvart.

(4) 200 bushels a medium crop per acre of potatoes, are, at 3s per bushel, equal to seventy five dollars; and a medium crop of wheat, 15 bushels per acre, at even 16s per boshet is but 30 dollars; difference per

(5) Parmentier of the French Institute.
(6) See vol 13 p. 114, of the British Annual Register. Some persons have imagined that by cutting the flowers of the potatoe, the crop may be increased, and analogy forms the opinion. The procreative powers the plant are thus diverted from the apple and concentrated in the bulb.

in it the mark of vegetation, harrow and roll it .- people to mountains of great elevation and to high attain the height of four inches, we set the horse hoe When the weeds show themselves a second time, car-northern latitudes (9) ry out your manure, cover the fields with it and plough of intersection, and set your potatoes in them

2d Of the choice of plants and mode of planting. Some economists begin by paring the potatoe and planting only the skins; others, less saving cut the potatoes in o slices, leaving a single eye to each slice; and a third class, almost as provident as the other two, are careful to pick out the dwarfs, and reasonable enough to expect from them a progeny of giants, most benchical for the body politic These practices cannot be too much censured, or too soon abandoned, because directly opposed both by reason and experience. In other cases, we take great pains, and sometimes incur great expense, to obtain the best seed. In the cultivation of wheat, we reject all smail, premature, worm eaten, or otherwise imperfect grains; in preparing for a crop of Indian corn, we select the best ears, and even strip from these, the small or ill shaped grains, at the ends of the cob; so also in planting beets, carrots, parsmps and turmps, the largest and finest are selected for seed. The reason of all this is obvious; - Piants, like animals. are rendered most perfect, by selecting the finest individuals of the species, from which to breed. Away then with such miserable economy, and instead of planting skins, or slices, or dwarfs, take for seed the is supposed to be an effect of too great humidity (11) between each layer of them, one of coarse hav or other best and largest potatoes; (those having in themselves cover them carefully with earth.

3d. Of the treatment of the growing crop.

As soon as the potatoes begin to show themselves, weeds will also appear: a good harrowing will then save much future labor, and the mjury it does the potatoe, will be little or none. In a short time, another weeding will become necessary; but your crop having now obtained some inches in height, you can no longer safely use the common harrow; but instead of this, the small one of triangular form, so made as to accommodate itself to the width of the intervals This labor may be occasi mally repeated, if necessary, until the potatoes begin to flower when the horse hoe must be substituted for the harrow. The effects of this instrument (the horse hoe) are to extirpate the weeds, to givide and loosen the -r !, and to throw over the potatoes an additional covering of earth.

The harvesting and preserving of potatoe crops are processes well known in this country. With regard to the lat , however, we would suggest, whether stacking potatoes on the surface of the soil and with a narrow base, is not a better mode, than burying them in the ground Fifteen bushels will be en ough for one stack, which must be well covered with straw and earth, and trenched around its whole circumference, to carry off dissolving snows and rain

water

Il ¶ Of Rye.

This grain, though of the same family with wheat, is less valuable. A bushel of rye weighs less, and gives less flour, and of worse quality, than a bushel of wheat. In comp rison, therefore, with wheat, it fails; still there are circumstances, which, as an object of culture, may give it the preference; 1st, it grows bears a much greater degree of cold than wheat; 3d, it goes through all the phases of vegetation in a shorter period, and of course exhausts the soil less; (8) 4th, if sown early in the fall, it gives a great deal of pasture, without much eventual mjury to the crop; and 5th, its produce, from an equal surface, is one sixth greater than that of wheat. These circumstan-

over the manner, and the quantity of manure be insufficient to this country as in Europe. The grain chopped and the distance of three feet from the former, and so cover the whole surface, apply it to the furrows only, and if, as may happen, it be even insufficient for this food in Pennsylvania; and in Germany, the postillions beds of that width. What we lose by this method, purpose, then furrow both ways manure the angles are often found sheing a black and hard rive bread, is only the seed buried by the horse hor; what we called burpournike, for the post and other horses; and the same practice prevails in Belgium and Holland.

by reason and patriotism; but if a spirituous liquor the crop. This part of the labor, which immediately must be drank, we have no scruple of preferring the follows the horse hoeing, is expeditiously performed form of whiskey, (of our own making,) as that, which, by two men, travelling in the turrows, one on each on the whole, is least injurious to the human body and side of a bed, and employing themselves in thinning

The pecies of this grain, cultivated here, are two the black and the white; for spring rye, Lotten mistaken for a species] is but a variety, produced by time and culture, and restored again to its former character

and habits, by a similar process. (10) last section potatoes, in a sandy soil, precede rye The ploughing harrowing and manuring given to that feeding off the crop on the ground, it is but necessary crop, will therefore make part of the preparation ne to turn in your sheep upon it, under such restrictions cessary for this. After harvesting the potatoes, cross as will limit their range, and prevent waste; and, inplough the ground and sow and harrow in the rye, deed, that nothing should be lost, hogs should be taking care, as in all other cases, that the seed be carefully selected and thoroughly washed in time water, as the means best calculated to prevent the ergot; a disease, to which it is most hable, and which

the most aliment for the young plants;) (7) place suffers less from them than either wheat or barley, dies of clean long straw. Though less nutritive than them in your furrows ten or twelve inches apart, and Whenever the straw of winter rye becomes yellow, either potatoes, carrots or cabbages, the turnip is b. lost in obeying it. "Cut two days too soon, rather of corn, oats or rye meal.
than one day too late," was among the precepts of Our acquaintance with the yellow turnip, (or ruta the crop next in succession.

III Turnips.

varieties; but as they have the same character and only time to get into general use here. To this arti only speak or the white turnip and the yellow.

Two methods of cultivation have been pursued, according to the plan, either of turning them down as the other species, particularly when boiled. Its flesh stable, by sheep or cattle. In the first case, the har-lit to withstand frosts, and to keep from one year to porposs soil, is a pretty good substitute. The seed is stripped off from time to time, as wanted for forage, sown after the harrow, and, but too frequently, left to without injuring the product of the root; which (in as own protection. In the other case, the plough is first good soil) gives, on the acre of Sweden, 350 quintals, used, and after it the harrow; a method much to be and, in even poor soil, a good crop. We sow half a preferred, as the difference of crops will more than buy the difference of labor, the only advantage claimed which will give plants enough to fill an acre. Transby those who advocate and adopt the first method

Our own practice is to plough in the stubble, harthe quantity of two pounds to the acre. This allows something for insects and something for waste. When made about the first of November, and the turnips are the plan's are generally above ground, give them a light covering of ashes, which, by quickening the growth of the plants and leaching on their leaves at will in soils where wheat cannot be raised; 2d, it than any other means practicable on a large scale, the same time, butter protects them against the fly with which we are acquainted. (12) When the plants

(9) Without rye, a great part of Russia would be uninhabitable. What we have seen of Archangel or Russian rye, is a miserable specumes-black and light.

(10) Spring rye, sown in the fair, will give a tolerable crop; winter rye sown in the spring, a very bad quires a slow, rather than a quick vegetation.

(11) See Tessier on the discuss of plants.

(12) On a small scale, water, in which potatoes have been boiled, is believed to be very useful in pro-(8) We have seen a field bear rye, several years in tecting cabbage, turn ps and other plants, from the succession without manure, and the last crop was attacks of the fly. We are in a course of experiments,

to work; running a furrow the whole length, or Its use, as a food for horses, is known as well in breadth of the field, and returning with another, as gain, is the manure created by the young plants, ploughed in between the beds, and the a vantage of Its conversion into whiskey, is a use less approved being able to weed and work those I it standing for and hand hoeing the surplus plants. These operations, of ploughing and weeding, may be performed a second, and even a third time, with advantage.

If we determine to plough in the crop as manure, we should do it while the ground retains a temperature favorable to the decomposition of the plants, and According to the course of crops, detailed in our before the frost has diminished their volume, or aftered their juices. If, on the other hand, we decide on made to follow the sheep. If, however, feeding in the stables be thought more advisable, (and it certainly better economises both food and manure) the turnips should be drawn, topied and stacked; interposing tive is not exempt from the attacks of insects; but parn rubbish, and capping the whole with a few bundlers less from them than either wheat or barley, dies of clean long straw. Though less nutritive than shiming and flinty, and circulates no more juices, na-found to be particularly useful to stall feed cattle, ture makes the signal for harvest, and no time should correcting, by its aqueous qualities, the heating effects

Cato; which, if adopted here, would save much grain baga) is but beginning. Mr Cobbett's experiments -terminate the harvest about the tenth of July, and have however, been very successful, and tend much give abundant time to turn down the stubble, and sow to recommend the plant, in preference to the white or common species. That, of the two, it is the more compact, the heavier, the more nutritious, the less apt These are said to be natives of the sea coast of the to become stringy and the more easily preserved, are north of Europe, where they are found growing spon-facts not to be contested. In both France and Enuneously. There are of them eight species, and many gland, it is rising in reputation, and perhaps wants uses, and require nearly the same treatment, we shall cle we will but add an extract from the work of M. D'Edelcrantz, (of Sweden) on the ruta baga.

"Its root is milder and more saccharine than tha manure, or of consuming them on the field, or in the is harder and more consistent; which better enables ow is used instead of the plough; and even upon light another. Its leaves extend horizontally, and may be good soil) gives, on the acre of Sweden, 350 quintals, pound of seed, about the beginning or middle of May, planting is performed about the last of lune or first of July To set out and water 5 or 600 feet in a day, row the ground lightly and sow the turnip seed, in is the task of one man, or of two women. One or two hoeings augment the product much. The harvest is covered in ditches, or in dry caves or cellars, for winter use."

FROM THE NATIONAL INTELLIGENCER,

On the Grape Vine, with its wines, brandies salt, and dried fruits.

No. V.

The whole of the peninsula of European Spain and Portugal freely produces the vine, and makes abunces render it peculiarly precious to poor soils and poor one; which shows, that the nature of the plant re-dance of wines, branches, and the dried raisin. Those two king loms, extending from 36 degrees north satitude in arly to 44, and giving us the Xeres or Sherry, Pahazetta; St. Lucar, Ben carlo, Malaga, or dry and sweet mountain and Catalona wines, from Spain; nd the tasbon, Carcavelle, and Port wines, from cortugal, demand our careful exact mation. Our conti-ment, from 35-27, when claimed and drained, will doubtless give us all these wines.

<sup>(7)</sup> The interior of the potatoe, forms the fecula, which subsists in the young plants.

much the best. This fact is one of those, which tend which will determine how far this remedy may be relited discredit theory. to discredit theory.

observing and intelligent young American traveller, will present us with an interesting opening of the subject of Spanish wines. It is not the worse for being more than filteen years old, as authorities should exhibit various times and places, in an inquiry which long branches left on the vine must after it has grapes, proceeds in the form of an induction of particulars The writer mentions those vine countries of Europe from which the North American Cohamia probably obtained its vines, grapes, vine dressers, distillers of brandy; and the divers of its raisms.

Cartiz, 24th March 1804.

Knowing that any information respecting the culture of the vine will be acceptable to you, I find satisfection in communicating what little I have been able to collect here.

In the vineyards of this country are cultivated several sorts of grapes, such as are called Palomino Pe dro Vime ez. Perrino Cancaro Bejerego Mantero, Il billo, Micante, Mosce tel merudo, Moscetel gordo, particularize. The culture of them all are the saunt, and as follows: - During the summer months, the land on which you intend to plant the vines is dug, few five-quarters. In the month of January the plants of one yard and three quarters apart. are put in the ground in two ways, either by making instrument. When the plant is put into the ground, care must be taken in filling up the hole to tread the care must be taken in filling up the hole to tread the carth well about it. The plants that are used are knowledged by the properties of the foregoing year, which are taken off the old vines at the time of pruning; which is the space between gathering the grape, and the time is the space between gathering the grape, and the time is always pressed alone, because it repens after the large of the foregoing. The sweet orange, which are the properties for a number of mites north of the Gulf; but the virt warmth yields to a cooler climate. So the continuous fits v.t.1 warmth yields to a cooler climate. So the course must be caute for a cooler climate. So the course plant is productive on the Gulf, and for a very considerable distance northward, gradually falling off, in the certainty and in the quantity of the crop, till it cause to deserve any attention in the middle country. The sweet orange, which is the provided of the fitting off. Now a hole with an iron bar, or, with a space, or any like they are likely to shoot. The year after the vine is others are gathered. (This grape will probably suit phanted you cut the stalk to a certain height, which get the most southern states of North America.) It officers and St. Augustine, affords the narrowest and perally is done so that only five or six buds remain on makes a viry dry wine, and of a good quality. Many strongest demarcation of a climaterial line of any of perally is done so that only five or six buds remain on the stalk above ground. You thus leave the plant un til it shoots, and after these are secured from frosts, and other accidents, which can destroy some of them, take your choice of the two original buds that have shot the year before, for your vine to form a head If the highest is the best, you cut off the whole second; or if it is the lowest you prefer, cut off the highest -- and by that means leave only one. You the wine that dryness, which is so much admired. must every year prune your vine, and for a certain number of years, until you see it has grown strong and shot out of the way, so as to be likely to spoil the head of your vine, by having shot lower, or are very weak, you cut them off; or if two together, you lop off

you I ave one of the best shoots of the foregoing year, with about four or five buds; as the vigor and substance of these mature stalks are better able to nourish these members than these of a less ripened assist them with more brandy if you see that they age. The same sort of vine gives richer or poorer wine, according to the nature of the land in which it is planted. Wheat land is not good for the vine. The best is a white chalky or clay fand; such as when it is first dug comes out in large pieces, and has almost the mentioned in the foregoing letter, is worthy of consithe last and worst, is the sandy. After you prune you vines, parallel to one another that the rain may run off leave it even, when the new shoots are strong enough to bear going through the vine ground without tear ing them off, you give it another digging, but shallow

The following copy of an original letter, from any harrow, and horse hoe, may be used, where land is "bandant")

When your vine shoots, you take off the bud shoots, as before directed All young plants must have sticks to them, to hinder them from growing crooked. The be raised from the ground, and supported with sticks, in order both to be able to dig the ground, and to pre- to April 6. vent the grapes from rotting, from the moisture thereof Vines very often shoot from the very root. These shoots must be carefully taken away, that a young vine should not toot too near the surface, which would expose it to be purched up with the solar rays and to have the roots of it cut when dug. Care must be taken every year, when the hole is made about them, to shave off all the young roots it may have. When any delicate test of the peach tree. But this test of the of the vines decay, it must be replaced by a branch state of the climate in various places, by means of the of the next to it, which is done by having this with time of fowering of trees, common to all our latitudes, is two branches, digging a trench three quarters of a var, not good. The peach grows in Vermont and Maine, or a yard deep, from one to another, then burying the and in Canada. It put forth its blossoms in the town two branches, carrying one to the place of the decayed, of Montreal, latitude 45 35, on the 18th May. The and several other kinds, which it is not necessary to vine and leaving the other in the place of the one buried inferiority of the fruit in Canada, compared with those These are treated in every respect as young vines. It of our Southern states, though not to be doubted, never will answer to set a new plant amongst old could not be reduced to a scale of degrees. A better vines, for it cannot thrive. The vines are set in re-test is to be drawn from the actual flourishing of vegeby some three-quarters, by others one yard, and by a gular rows, similar to our corn fields at the distance table productions within certain limits of our country.

I will conclude with a few remarks on the process of

the juice of the grape

more with a view to give them a kind of consistence, that they may adhere better together when pressed. than from any idea of improving the wine. Yet I am not sure that it does not in some degree, tend to give

juice of grape, which has been reduced to one-fourth pagne, in France, where the wines of that country healthy, you cut off the new branches, each only one its primitive quantity, and is quite black, thick, and are good and plentiful, we find the vine region of bud from the stalk; and if any of these branches have sweet, (resembling molasses) in order to give it the our country beginning at the mouth of the Rio Bravo strength and richness it requires. If you choose, or del Norte, and extending through the parallel of New should perceive in your wines after the vinous fermen-Orleans, reaches to the end of the 41st degree; suptation is over and the chullition has ceased, any weak- posing our country to be as much cleared of forests, the feeblest that the other may gain more strength when your vine is eight on the stalk is stout and strong, every year, when pruning, dy, make them full the sooner, and preserve them present state of the country we may deduct two or from the power of the warm weather.

In addition to all this I must add, that it is absolutely necessary to keep a constant watch over them, and land Harmony in Indiana.

stand in need thereof.

The mixture of different kinds of grapes, (the sweet, or highly saccharine, with those not sweet,) consistence of soft stones. The next is red clay, and deration. The proportions may require experience and judgment. The evaporation of the watery must dig the vineyard, leaving a large square hole to parts of the fresh juice, by the application each vine, that it may keep the rain. This is done in of the proper degree of heat, before fermentaSpain, on account of its being more generally dry tion, is also well worthy of notice. In the course of than wet. But if it lies on a low piece of ground, you long and studious inquiries into the causes of the fine then dig it, raising the earth in rows between the full hody of the best wine of Xeres, Sherry, famous on eider making, in reply to my enquiries on since the days of Falstaff, this mode of preparing that subject; and it affords me pleasure to avail before the vine shoots. Again you dig the ground and that Spanish Andalusian wine, has been brought into myself of this opportunity, to acknowledge my

and when the grape is near ripening, you give it ano-forwardness of the spring, in different parts of the Uni-ther very slight digging, (to save labor, the plough, ted states, published in 1818, and from a note there-as by myself. I possess but a very limited tus Persica ) blossomed at

Fort Claiborne, Alabama, in latitude 31 50, long. 87 55. W. March 4.

Charleston, S. Carolina, do. 32 44, do. 83 39, id. 6 to 12.

Valencia, on the Mediterranean coast of Spain, do. 39 18, do. 0 5 min. id. 19.

Richmond, Virginia, do. 37 10, do. 77 50, id. 23d

Lexington, Kentucky, do. 38 06, do. 85 08, April 6

Baltimore; Maryland, do. 39 21, do. 77 48, id. 9.

It will be seen that the elevation by the westing and northing of Lexington, in Kentucky, compared with Fort Claiborne, Alabama and Richmond, Va. do not present very serious differences, by the The sugar cane begins to appear, in a flourishing condition, in our countries on the Gulf of Mexico, and prevails for a number of miles north of the Gulf; but people dislike its culture, on account of its ripening our productions. Since it flourishes at Lisbon, and so late; which makes the vintage liable to be spoiled the vine grows there, and throughout several degrees by rains, However if the rain does not fall very abun of latitude in Portugal and Spain, south of Lisbon, you cut off all the shoots excepting the highest, and dantly, it rather does good than harm. (May not ir- there can be no doubt that, with a proper quality and when the time of pruning comes you prune these rigation suit the vine?) At the time of pressing, some form of soil, the grape vine will give abundant crops shoots, leaving each of them only one bud, and then chalk is thrown over the grapes. But this is done in all the country of the United States, including the most southern extent of our open Louisiana claim, or our proposed substitute under the Florida treaty.

Recommencing at this orange line of New Orleans and St. Augustine, and proceeding north on our continent as many degrees (being eleven) as from the In wine of young vines, you put about 1-15th of boiled parallel of L sbon to that of the north part of Chamthree of those degrees, and confine ourselves by the limitation of the tried and successful vineyards of Vevay

> A Friend to the National Industry. Philadelphia, Nov. 8, 1819.

### Occasional Extracts,

FROM LETTERS TO THE EDITOR.

Lexington, Va. Nov. 29, 1819.

MR. SKINNER,-I have read with attention and instruction, the very clear and satisfactory information given by Sylvanus and Mr. Hillen, view, from various authorities. There can be no doubt obligations to those gentlemen, for their valua-It appears from the statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and statement of the comparative will be duly appreciated by the public as well and the comparative will be duly appreciated by the public as well and the comparative will be duly appreciated by the public as well and the comparative will be duly appreciated by the public as well and the comparative will be duly appreciated by the public as well as the comparative will be duly appreciated by the public as well as the comparative will be duly appreciated by the public as well as the comparative will be duly appreciated by the public as well as the comparative will be duly appreciated by the public as well as the comparative will be duly appreciated by the public as well as the comparative will be duly appreciated by the public as well as the comparative will be duly appreciated by the public as well as the comparative will be duly appreciated by the public as well as the comparative will be duly ap on, respecting Span, by Doctor Jacob Bigelow, of stock of agricultural knowledge, and their Barvard University, that the peach tree Anugda-kindness, together with your polite attention to every interesting inquiry, encourages me to

<sup>\*</sup> Small.

<sup>†</sup> Large.

for the labour bestowed on it.

account.

I have observed that the Helicoland bean stands high in the estimation of the Agricultural Society of South Carolina, but no instruction is given for its cultivation, nor is if probable that at present a sufficiency of seed could be butcher's cleaver. They may be made of old obtained in this country.

to my purpose: but as it may in other respects hand ought to cut two rows, and two hands use to be made of this is left to others. J. M. be very valuable, I wish to know how far it is should throw their corn together; this will deserving of the high encomiums bestowed on bring the product of eight hills into each parcel, it by Mr. Cobbett, and whether or not it would in which state it is very easily collected. 1 succeed as well on strong new land, as on old freely admit that the other mode has, in one manured ground? Many of your correspon- respect, the advantage of mine, in admitting dents have had one year's experience, and of earlier cutting, as when stacked in the field could give all the necessary information.

advantages of cutting up corn, and as my practice differs in some measure from that advocated by gentlemen, whose opinions are entitled fer something else in part, as will appear from to great respect, it is with diffidence that I some of the preceding inquiries. touch upon the subject. I will, however, offer my sentiments (founded on my own experience) and they may be taken for what they are worth, I am an advocate for it in any way, in preference to the old slovenly habit of sceding among the corn, as nothing short of critian it ments on a limited scale. up will enable the farmer to seed in a manner for which the corn is intended.

It is well known, that the practice of cutting corn with the tops and blades on it originated with the feeders of stock. It is given in that state to their cattle, their sheep and hogs are then brought in succession, to collect what is depends on the seed. Blaster seed will not \$1.8 Rm, \$1.5 Cons, 55 to 58 cts.-Rms, 52 to 55 scattered by the cattle, and would otherwise be vegetate, and the plants from old seed are not ets .- V. Arandie Tonacco, 2 hogsheads, sold the prelost, and I have no reason to doubt that this as vigorous as from the new. practice is well suited to the porposes for which it was introduced.

lumns of your very valuable paper; and, that intended for other purposes. It was heavy and rich ground, and after it is thoroughly manured, my views may be more distinctly understood, inconvenient to handle, a great member of the well ploughed and harrowed -- dig frenches about it may be necessary to inform you that my ro- stacks were blown down in windy weather. three feet from each other, and three inches tation of crops has been precisely the same, as They were necessarily taken down to husk the deep-set your onions in them, about two inthat mentioned by Mr. Lee in the 15th No. of corn, then to be set up again. The corn lay ches apart, and cover them with earth. They the Farmer, with the exception of the two last all over the field, and it was frequently neces-should be heed frequently and wed carefully. years. Having found a large corn crop and the sary in the winter to have the stalks, when the In order to render them vigorous, and to proclover harvest to interfere, more than was con ground was soft, and the operation injurious to tect them from storms, they should be hilled sistent with the necessary attention to both. I the small grain. These considerations induced nearly as high as the swelled part of the send substituted oats in parts, as a fallow crop, (for me to adopt a different practice, which I have the want of a better.) I never esteemed it very since pursued, and expect to continue. I would juried. The seed should be gathered, when it highly, and, in the late dry seasons, I found it to not in any case stack the corn in the field; it begins to shell out, and it can be easily ascerbe the only crop that did not compensate me produces inconvenience in seeding, and in the tained whether it will vegetate by soaking it in experiments that I made, the grain on which water. It should be carefully kept from mice. Now, Sir, my object is to be informed when the stacks stood perished. I would recommend ther any, and it any, what fallow crop (coin cutting the tops at the usual time, which rarely excepted.) can be introduced in the middle interferes with any other business; if the seastates as a profit ble substitute for oals, with a son was good for clover I would leave the blades, the answers given to a former enquiry, respectdescription of the best mode of cultivating it; otherwise I would take them off. In general I and of the soil and situation best adapted to its commence cutting from the 20th Sept. to the 1st growth? It is of importance that it should Oct. according to the season, and hawl it immecome to maturity early in September, that time diately to the barn-yard, where it is set up in may be afforded to seed the ground with winter long ricks, (about 15 inches, thick on each side) grain, before the time for cutting corn. (which I against forks and poles of a suitable height of Judge Peters in his pamphlet on the use of shall notice hereafter) and how it is to be taken I wo wagons, one set of horses and six hands. that article published 20 years ago; that horoff the ground; if to be cut with the scythe, Hor in that ratio, appears to me to be the best would consider it to be more desirable on that distribution of force; one of the hands to stack, had become diseased and died, as supposed from one to unload, and three to cut and assist the wagoner in loading.

Many farmers cut their corn with hocs, which renders it very difficult to collect. The better course is to use knives, made in the form of a straw knives, the blade about ten, and the It is obvious that the Buta Baga is not suited shank and handle fifteen inches long. Each with the tops on, it will cure more speedily: I will now make a few observations on the but when I used corn exclusively as a fallow crop, my seeding was done in time to produce good crops of wheat. I would, however, pre-

> That I may not lead others into error, I will observe that my land is a light loam, with a moderate proportion of sand, and the crops come early to matarity. Those who have cold heavy lands would do well to make their expr-

I have seen in the Richmond Enquirer, (I that will justify the expectation of a good dank in the course of last winter.) an account crop, nor enable him to leave the land smooth of a very early and productive kind of cornand in good order, for clover seed and the raised either in Vermont or Massachusetts, scythe; but am induced to believe, that the which was very much sought for. If seed of mode of cutting ought to be adapted to the uses this kind could be obtained, I would desire no hetter fallow crop, as the only objection to tions of husbandry-will be pursued in several succutting up would be removed. SIDNEY.

### ELECTRIC A ON RAISING ONION SEED.

MR. SKINSER .- In Call A sting onions much

In the fall select from your onions the longest and handsomest, and rause which are perfectly I made the experiment in this way, about the ripe; let them be put into the cellar and kept be quoted at \$2 30.

seek for further information through the co-20th of September 1814, with a crop that was from the frost. In the spring select a piece of stalk, which stalk should not in any way be in-BUTCH STREET, SQUARE

TO THE EDITOR OF THE AMERICAN FARMER.

Sir,-Observing in your last number among ing mills to break the grain and cob of corn together for feeding creatures, that some of the writers mention the same machinery will serve admirably to prepare plaster of Paris. I beg obstructions occasioned by the mixture of the powdered gyp-um with their food. It was not positively pronounced so, if I remember rightly , but appeared too probable for him to omit the caution, or not repeat it again on this occasion.

It may not be amiss to add respecting the corn cob, that when burnt it will be found to

Baltimore, December 14, 1819.

### THE FARMER.

BALTIMORE, FRIDAY, DECEMBER 17, 1819.

Many communications are lying over, waitng their turn for insertion; amongst them

Agricultural Chemistry, No. 2.
The Editor has been exceedingly mortified at finding that in some instances, bills have been sent to persons who had already paid .- In several cases gentlemen have been kind enough to receive and send on subscription nioney without particularly designating on whose account. We trust, however, that our subscribers will consider that the paper is yet in its infancy, and that the Editor, tesides his being wholly mexperienced, has not time to arrange and attend to the details of the establishment; but he can premise that every precaution will be adopted to cure all irregularities as soon as possible.

The subject of the advantages of substituting capa for horses, to a greater extent in the common operareeding unimbers-until it shall have been presented in all its various tearings.

Present Prices of Country Produce in this Market. Actual sales of Wheat on the 4th mst - White, ent week for \$11 & \$850-Calvert county do. 11 hds. \$.0 & \$7.50 No sales of Virginia Tobacco he present week-North Carolina Staples, same as tast report, excepting the article of Tar, which may

### PRICES CURRENT

### AT BALTIMORE:

Carefully Revised and Corrected every Thursday

	RETAIL	PRICES
BEEF, Northern mess obi.	17	
No 1	13 50	
No 2   Ib.	16	
Bacon, 10. Butter, Ferkin	18	20
Coffee, first quality,	33	
second do	27	28
Cotton, "	27	
Twist, No. 5,	45 46	50
No. 6 a 10, No. 11 a 20,	53	80
No. 20 a 30,	80	1 20
Chocolate, No. 1,	33	
No. 2,	28	
No. 3,	25	0.0
Candles, mould, hox	20 18	22 19
dipt,	45	scarce
spermaceti,	10	15
Cheese, American,   1b.	60	65
Fish code dev  qtl.	3 50	
herrings, Susquehannah, bbl.		retail
mackarel, No. 1 a 3	9	12
shad, trimmed, -	7 75 6 50	7 87
Flour, superfine,	5 50	
fine, DDJ.	4 50	5
rye,	4 α	4 25
Flaxseed, rough, cask	none.	
cleaned, Dush	do	
Flax,   lb.	do	1.
Hides, dryed,	12	15
Hogs lard,	25	30
Leather, soal, gal.	62 1-2	7.5
New Orleans,	75	}
sugar house,	1	
Oil, spermaceti, gal.	1 50	
POlik, mess or 1st quality, - bbl.	18 α 16 α	20
prime 2d do cargo Sd do	14 a	15
cargo Sd do ton	5	1
ground bbl.	1 75	
Rice   1b.	6	1
Spirits, Brandy, French, 4th proofigal.	2	3
peach, 4th proof	1 25	1 50
apple, 1st proof Gin. Holland, 1st proof	1 50	
Gin, Holland, 1st proof do. 4th proof		1
do. N. England	50	60
Itum, Jamaica,	1 50	
American, 1st proof	75	
Whiskey, 1st proof		62 1-20
Soap, American, white, lb.	18	4
do. brown, - Sugars, Havana, white,	19	
brown,	14 50	
loaf,	25	
lump [lb.	20	
Salt, St. Ubes bu .	70	
Liverpool, ground,	75 12	I
Shot, all sizes, lb. TOBACCO, Virginia fat, cwt	7	
do middlings,	6 50	
Rappahannock,	5	5 50
Kentucky, -	6 50	
small twist, manufactured, lb.	25	37
pound do	50 63	1
TEAS, Bohea, Ib.	75	a 100
Hyson Skin	75	
Young Hyson,	1 25	a 150
Imperial,	1 75	
WOOL, Merino, clean,	80	
unwashed, -	40	
	65	
crossed, clean,	9.5	
unwashed -	85 37	
crossed, clean, unwashed - common country, clean, unwashed	35 37 25	

FROM THE SPECTATOR.

Ipsi lætitia voces ad sidera factant Intonsi montes ; psa jam carimina rupes, V1ug. Ecl. 5, v. 63 Ipsa sonant arbusta

The mountain-tops unshorn, the rocks rejoice; The lowly shrubs partake of human voice.

#### THE SEQUEL OF THE STORY OF SHALUM AND BILPA.

The letter inserted in my last had so good an effect upon Hilpa, that she answered it in less than a twelvemonth, after the following manner.

" Hilpa, Mistress of the Vallies, to Shalum, Master of Mount Tirzuh.

" In the 789th year of the creation.

praisest Hilpa's beauty, but art thou not secretly lenamored with the verdure of her meadows? Art person? The lowings of my herds, and the bleatings of my flocks, make a pleasant echo in thy mountains, and sound sweetly in thy ears. What though I am delighted with the wavings of the forests, and those breezes of perfumes which flow from the top of Tirzah: are these like the riches of the valley?

"I knew thee, O Shalum; thou art more wise and happy than any of the sons of men. Thy dwellings are among the cedars; thou searchest out the diversity of sails, thou understandest the influences of the stars, and markest the change of sea ons. Gan a woman appear lovely in the eyes of such an one Disquiet me not, O Shalum; let me lone, the I may enjoy those goodly possessions which are fallen to my lot. Win me not by thy nticing words May the trees increase and multiply; mayest thon add wood to wood, and shade to spade; but tempt no Hilpa to destroy thy solitude, and make thy retirement populous

The Chinese say, that a little time afterwards she accepted of a treat in one of the neight ouring hills to which Shalum had invited her. This treat lasted for two years, and is said to have cost Shalum five hun dred antelopes, two thousand ostriches, and a thousand tuns of milk , but what most of all recommended it, was that variety of delicions fruits and put-herbs, in which no person then living could any way equal Shalum.

He treated her in the bower which he had planted smidst the wood of nightingales. This wood was made up of such fruit-trees and plants as ar most agreeable to the several kinds of singing birds; that he had drawn into it all the music of the country and was filled from one end of the year to the other with the most agreeable concert in seas n.

He shewed her every day some beautiful and surprising scene in this new region of woodlands; and as by this means he had all the opportunities he could wish for of opening his mind to her, he succeeded so well, that upon her departure she made him a kind o: promise, and gave him her word to return him a po sitive answer in less than fifty years.

She had not been long among her own people in the vallies, when she reclived new overtures, and at he same time a most splendid visit from Mishpach. who was a mighty man of old, and had built a great city, which he called after his own name. Every house was made for at least a thousand years, nay, there were some that were leased out for three lives so that the quantity of stone and timber consumed in this building is scarce to be imagined by those who live in the present age of the world. This great man entertained her with the voice of musical instruments which had been lately invented, and danced before her to the sound of the timbrel. He also presented her with several domestic untensils wrought in brasand iron, which had been newly found out for the conveniency of life. In the mean time Sha um grevery uneasy with himself, and was sorely displeased

at Hilpa for the reception which she had given to Mishpach, insomuch that he never wrote to ber or spoke of her during a whole revolution of Saturn; but, finding that this intercourse went no further shan a visit, he again renewed his addresses to her; who, during his long silence, is said very often to have cast a wishing eye upon Mount Tirzah.

Her mind continued wavering about twenty years longer between Shalum and Mishpach; for though her inclinations favored the former, her interest pleaded very powerfully for the other. While her heart was in this unsettled condition, the following accident happened, which determined her choice. hich tower of wood that stood in the city of Wishpach having caught fire by a flash of lightning, in a few days reduced the whole town to ashes pach resolved to rebuild the place, whatever it should cost him: and having already destroyed all the tim-ber of the country, he was forced to have recourse to "What have I to do with thee, O Shalum! Thou Sha'um, whose forests were now two hundred years old. He purchased these woods with so many herds of cattle and flocks of sheep, and with such a vastextent thou not more affected with the prospect of her green of fields and pastures, that Shahun was now grown vallies than thou wouldst be with the sight of her more wealthy than Mishpach; and therefore appeared so charming in the eyes of Zupah's daughter, that she no longer refused him in marriage. On the day in which he brought her up into the mountains, he raised a most prodigious pile of cedar, and of every sweet-smelling wood, which reached above three hundred cubits in height: he also cast into the pile bundles of myrrh and sheaves of spikenard, enriching it with every spicy shrub, and making it at with the gums of his plantations. This was the burnt-offering which Shalum offered in the day of his espousals; the smoke of it ascended up to heaven, and filled the whole country with incense and perfume.

> TLAND FOR SALE .- John Darby, of Mindenhall, Richmond county, Virginia-500 acres lying within 8 Ales of the Chesapeake Bay-between the Rappaliannock and Piankatank, and within a mile of both-opposite Low Ground Bay on one side, and Gryme's ware house on the other—from 100 to 120 acres cleard 86 or 100 in lofty pine-the balance, 300 acres in virgin growth of fine oak hickory and chesnut-a bold str am of water passes through the centre of the land, on which are 40 acres of rich swamp land, which has been cultivated in timothy and corn, more neadow may easily be made-the buildings sufficient for a small family, a fine spring of water near the dwelling, and the place uncommonly healthy.-The wood and mber on this land, may be easily conveyed to market from Gryme's ware house, whence it may be taken in boats drawing 20 feet water. -For terms and a view of he land, apply to Maj. Thomas Healy, residing near or to the own r-Stock of the Bank of the United States, or of any of the chartered Banks of Virginia, Maryland or the District of Columbia, at their current value.

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Vol. I.

### BALTIMORE, FRIDAY, DECEMBER 24, 1819.

Num. 39.

### AGRICULTURAL.

FROM THE ALBANY ARGUS.

### Treatise on Agriculture.

SECTION IX -Continued.

Of the plants recommended for a course of crops (in the preceding section ) and their culture,

IV. Of Barley.

It is probable that bread was first made from this grain. The Jewish scriptures speak only of barley baves; the gladiators among the Greeks were called barley eaters; and Columella says, that (like our In dian corn and beans in the southern states) barley was the food of the slaves. Among the Romans, it was first employed as a food for man, and afterwards for cattle. (14) The same qualities which recommended at then, have since diffused it more generally than any other grain; it is found to be better adapted to different soils and climates; less subject to the attacks of insects, and more easily preserved. In times of scarcity, it is a good substitute for wheat, and at all times yields a beverage, under the names of beer, ale or porter, equally wholesome and invigorating. It is besides, a food, on which cattle do well, and horses arrive at largest and heaviest being always the best) its plumptheir greatest possible perfection. (15)

The species of this grain most in request, are two—Hordeum Distichum (two row barley) and Hordeum Celestæ (naked barley.) The former is preferred in England, and as we suppose in France, as M. Parmentier ascribes to it all the good qualities of the other species, and much more productiveness. (16)

Of the latter species the nations of the north, who are most in the habit of using barley as the basis of both food and drink, speak highly. (17) But among us, who cultivate it only for the last purpose, this species has less credit, and is even considered the worst, from a belief, that after being dried, it malts imperfectly or with difficulty,

Though not so nice in relation to soil, as either wheat or rye, still barley prefers a loose, warm and moist (not wet) soil, and even grows remarkably well in sand, (where we have placed it) in succession to turnips, either ploughed into the ground or consumed

on the field.

Other things being equal, the spring crops which are first sowed, give the best and largest products. The moment, therefore, that your soil is sufficiently dry, begin ploughing and at a depth not less than six inches; because the roots of barley enter the earth more deeply than those of any of the other cereal graminæ. If the soil be well pulverised (as it ought to be after turnips) a second ploughing would but be a waste of time and money: (18) proceed, therefore, to

(14) This use grew out of the belief of its nutritive and invigorating qualities.
(15) See Buffon on the horse of Arabia. Vol. xxii.

p. 195.

(16) He states it to be double as much.

(17) "Hordeum celeste Norvegis gratissimum, quo-niam cerevisiam generosam præbet." Mitterpacher. Elem. rei. rust page 312.

(18) The Romans had two maxims on the subject "those profits are to be preferred, which cost the not do better than the same number in broad cast,

sow your barley broad cast, (19) and cover it with a to live alone; and, if not pastured, (21) to brave the short toothed harrow sow and roll in your clover seed, destined to become your labor by two abundant crops of grass or hay. the next crop in succession.

V Of Clover.

The Frifolium Agrarium of Linneus, is found growing spontaneously in many places, as is sufficiently indicated by the names given to it-of Dutch clover, Spanish clover, clover of Piedmont, clover of Normandy, &c. &c. (20) It is about two centuries since it first became an object of agricultural attention as forage, while its ameliorating effects on the soil (produced by its peculiar system of roots and leaves) was a discovery of modern date. It is now generally sown with barley, or other spring grain of the culmiferous kind, and rarely by itself. The advantages proposed by this practice, are three: 1st, the preparation given to the soil for the grain crop, which is exactly that best fitted for the clover: 2d, the protection given by the barley to the young clover, against the combined effects of heat and dryness; and 3d, the improved condition in which it leaves the soil for subsequent culture. In this practice, however, a less quantity of barley must be sown than usual, because without ventilation, the clover plants will perish. To this condition two others must be added, because indispensible to a good crop; 1st, that your seed be good; and 2d, that it be regularly and equally sown. The tests of good seed are, its comparative size and weight, (the ness, its yellow or purple color, its glossy skin, and lastly its cleanness, or separation from other seeds and from dirt.

The human hand was, no doubt, the first machine employed for sowing seeds. The difficulty, however, of scattering them equally over every part of the field, soon attracted notice and engaged mechanics in devising something which should better answer that purpose. China was the first to produce any thing at all commensurate with this object; and it was not till the seventeenth century that this, or some similar invention, was introduced into Europe by Lucatteo (a Spaniard) who, meeting no encouragement at home, transmitted his real or pretended discovery to London. Here, (as has been conjectured) it served as a model for the sowing machines of M. Tull, and from 1750 to 1770, the mania on this subject was at its height; but from that period to the present, it has been gradually subsiding, and the hand is now completely and generally restored to its original functions.

The quantity of seed to be given to the acre should, in a great degree, depend on the soil; if this be rich, ten or twelve pounds are sufficient; and if poor, double that quantity will not be too much. The practice of mixing the seeds of timothy and rye grass, &c. with that of clover, is a bad one; because these grasses neither risen or ripen at the same time. Another practice, grain, before the earth has acquired a temperature favorable to vegetation, and when there cannot be a hundred fold. (23) In ancient Rome, its use, as a food doubt but that two thirds of the seed will perish.

By the time your barley, or other covering crop, is harvested, your clover will be sufficiently established

(19) Mr. Young's experiments shew, that there is something in the constitution, or habits of this grain, to which the drill, or row husbandry, is not accomof expense, which it would be wise in us to adopt: modated. Even isolated grains, wed and worlled, did

more. See Gilbert on Artificial Meadows.

The last operation will be to ensuing winter, and during the next summer to repay

The period in the growth of clover, at which it is most profitably cut and used, presents a question much discussed and variously answered; because depending on extraneous and local circumstances, (such as the state and proximity of markets, &c.) which cannot fail to vary the results, in the hands of different persons, and even of the same person, at different times and at different places. There are, however, some general remarks which belong to the case, and which ought not to be omitted in even this brief view of the

1st. Clover cut before it flowers, abounds in water -has in it but little nutritive matter, and is even apt to produce indigestions in the cattle fed upon it. (22)

2d. The stems of clover, cut after seeding, are hard and woody, and no longer hold the leaf; and,

3d. All plants when permitted to seed, exhaust the soil; and to this rule clover is not an exception.

From premises furnished by these facts, we would conclude, that the short period between the flowering and seeding of clover, is that in which its use would be most advantageous, whether regarded as a forage or as an ameliorating crop.

When seed is the principal object of culture, we cannot do better than to adopt the practice in Holland -where the first crop is cut before it flowers, and the

second is reserved for seed.

The largeness of the stems, the number of the leaves, and the aqueous quality of both, render it a difficult business to make clover grass into hay; and the difficulty is not a little increased, by the brittleness or disposition of the drying grass to fall into pieces during the process of handling. To meet this case, two supplementary means have been employed: which enable you to house or stack clover in a much greener, or less dry state, than would otherwise be safe. The one is, to scatter over each cart load, while stowing away for keeping, two or three quarts of sea salt: the other, to interpose between two layers of clover, one of clean straw. By the first method, the whole mass is made acceptable to cattle; by the second, the quantum of nutritive forage is increasedand by both methods the clover is effectually prevent. ed from heating.

The next step, in our system, is to plough in the clover stubble, as a preparation for the succeeding

This grain, so useful to man, (because forming so large a portion of his subsistence) is happily found to adapt itself to a great variety of soils and climates. It grows vigorously in clay, in loam, in calcarious earth and even sand, when aided by manures, or in succession to peas, vetches, clover, &c. To the north it is found in the frozen regions of Siberia; and to equally bad, is that of sowing clover seed on winter the south, under the burning sun of Africa, it yields, according to the declaration of Pliny, more than one

> (21) If the crowns of young clover roots, be nibbled or otherwise wounded, the roots die. Sheep and horses, (both of which bite closely) should therefore be particularly excluded from clover, unless intended for pasturage only.

> (22) This effect of clover (which we call horing) is prevented in Alsace, by watering the cattle before giv. ing them clover, because a certain quantity of water prevents fermentation.

least;" and again, "nothing is less profitable, than very high cultivation." "Nihil minus expedire, quam with one of Normandy clover, weighs one seventh po centuri quinquageni modii reddentur." XVIII I. Nat. His. Pliny.

for man, soon superseded that of burley and rye; and in modern Europe, it is even denominated corn, par excellence.

Of this invaluable grain, there are four species, distinctly marked and generally acknowledged, viz: &c.

Many headed wheat, (24) Polish wheat, spelts and common wheat. We shall speak only of the third because it gives time for the roots of the grain to es-

little practical acquaintance; and, 1st. of Spelts. This species and its principal variety (Triticum Monicocum) is much cultivated in Germany and Switzerland. Deprived of its husk, the that they extend to the waves of the ocean; which other food.

The structure of the common wheat, but yields has probably first begotten the opinion (held by M.)

The structure of the common wheat, but yields has probably first begotten the opinion (held by M.) than the fourth species.

arising from culture and climate, and not, as we be posed most to affect vegetation. lieve, the result of an organisation uniformly and essentially different.

ration of the soil, the choice and preparation of the the ground of economy, employing less seed and disseed and the time and different modes of sowing or tributing what it does employ more equally. Nor differently pursued. By the former, the seed is eco-

planting it. 1st Of the preparation of the soil.

ed by corresponding degrees of labor. The sugar parison is in favor of the other method, as it requires cane, rice and wheat, are more valuable than oats, less time and fewer laborers, and as the waste and irbuckwheat or turnips, and require more labor and regularity imputed to it, are, in hands practised and expense in their cultivation. Indeed, under the old steady, reduced to little or nothing. system of fallows, the degree of both, bestowed upon a wheat crop, was enormous. Two years and five or planting the suckers at regular distances from the six ploughings, were sometimes given to this prepar-seed bed, into another prepared to receive them, has beans have been selected, and with great advantage. atory culture; but on the new plan of a rotation of been practised on a small scale and is found to yield crops, the necessity for this, is in a great degree ob- abundantly; but it is so embarrassed with expense as viated, and two ploughings of a clover lay are in to render it entirely unfit for general use.

2d Of the choice and preparation of seed Seed should be taken from some fine crop of the preceding year, (26) which shall have ripened thoroughly and been well preserved. This, after passing two or three times thro' the fanning mill, should be carefully washed in clean water, and again in water in which a quantity of fresh lime has been shoked; or, (if "me cannot be had) in which clean and recent shes have been leached. This washing, as we have already suggested, should never be omitted; Rome by the procurator of Augustus. (29) because, besides detecting the shrunk or shrivelled Some calculators have supposed, and on data not grains, and many seeds of other plants (which will easily refuted, that the maximum produce of this flow on the surface of the water) it entirely removes grain over the whole face of the globe, and in a series the dast of sauteal rust, &c. and thus prevents their of any ten given years, will not exceed six bushels propagation. (27) Our next step in this process is to reaped, for one bushel sown. (30) roll the seed in pulverised gypsum.

called wheat of planty, miraculous wheat, &c. yielding largely, but, on manufacture, giving much bran one, containing several species; but of these, the field and bad flour.

much boasted in Germany, is made from spelts

or the stack, and after having been subjected to a fall, before the cold and wet weather begins, or in the high degree of artificial heat. We mention this fact, spring, after it has ended. however, not to invite to a selection of seed grains, of either of these descriptions, but to assure the farmer, that where better cannot be had, he may employ such. for that purpose, without apprehending a total loss of his time and labor.

(2 ) Smut, charbon and rust in grain, were (according to the old philosophy) attributed to storms, or difference in cultivation. See article 3d of this sec-Fillet, Tessier, B. Prevot and Decandolle have shown, be useless.

31. Of the time of sowing wheat.

On this head there is a diversity both in practice ind opinion Some prefer early others late sowing; some sow in the full, others in the wane of the moon,

and fourth species, because with the others, we have tablish themselves before winter, and experience mended. Sleep, cows and horses are particularly proves, that grain early sown, throws up more lateral fond of them; and hogs are more promptly and stems, than that which is sown late.

a flour of finer quality and better fitted for the pur- Toaldo and other seavens) that the atmosphere (which peas are an exhausting crop; and it is on this eviposes of pastry (25) Two other circumstances re- is only another and more fluid ocean, and which has commend it; it withstands the attack of insects, and much to do with the health and diseases of animals or six years rotations; but if we examine the leaves. commend it; it withstands the attack of insects, and with the grow in poorer soil with less preparatory labor, and vegetables) is also subject to these influences, in regard to both number and form, we will probably than the fourth species.

But the calculations of M. de Place prove, that the find reason to modify this opinion and allow, that by 2.1. Common wheat has many varieties; some of flect of these on the atmosphere, will not make a stifling weeds, by checking evaporation, and eventualwhich are bearded, and others bald; some ovid and difference of one line and a half on the barometer, others round or square; some yellow or red, and and are wholly insufficient, to account for those great derit more favorable to subsequent crops. others white; some soft and others fluty; accidents agitations of the atmosphere, which have been sup-

4th Of the different modes of sowing wheat.

These are two, the one, executed with the hand; With regard to the culture of this plant, we shak the other, with a sowing machine of which we have low ploughing, without loss of time; and care sl confine ourselves to the following points; the preparalready spoken. The latter has been advocated on be taken that the seed be not laid too deeply. will it be denied, that when wheat is very high and nomised, the product increased, and the soil better labor very cheap, there may be a saving in the use of Products of much value to man, can only be obtain- this machine; but in all other circumstances, the com- decided advantage as to outweigh the saving, in time

A third method of propagating wheat, viz. by trans-

one; yet Cicero, who had been queetor of that island, 1st, the hogs feed and fatten themselves, without any asserts, that the produce of Sicily, was but ten or additional interposition of his labor; 2d, no particle twelve for one. (28) To conciliate these high and opposite authorities, M. Yvart has supposed, that the product mentioned by Cicero, was an average one of 4th, the rooting of these animals, which in other cases he whole island; and that reported by Pliny, was is an injury, is in this a benefit the result of one or more transplanting experiments; an opinion rendered probable from the fact, that the parent stems and their offspring, had been sent to

VII. Of Peas.

The pea is a native of the southern parts of Europe, (24) This is the Triticum Compositum of botanists, and is found growing spontaneously in the western parts of our own continent. The family is a large

(2) The bread of Franckfort, Nuremberg, &c. so that the two former of these diseases are produced by an intestinal parasite, of the uredo or mushroom fami-(26) A great variety of experiments shew, that ly, the progress of which is much promoted by humi-heard of, or seen practised; the officacy of which dewheat preserves its germinating faculties, under cir. dity and shale. Analogy favors the opinion, that rust termined me to repeat the experiment this spring upon cumstances apparently very unfavorable, and that it owes its origin to the same cause. The remedy for a larger scale. I am so entirely satisfied with the sucmay even be sown to advantage, after several years all is the same; wash your seed grain thoroughly in cess in both cases, that I am induced to communicate keeping; after a slight degree of malting in the sheaf lime water, roll it in plaster of paris and sow it in the the mode to you for the information of our society

(28) Orat. contra Verrem

jus, ex uno grano (vix credibile dictu) cccc. paucis

minus germina, Plmy.

(30) The reader will remember, that on our plan, turnips follow wheat, as they do rye, and without any

fpea alone comes within the scope of our present purpose. Of this, there are two varieties, denominated. from their color, the gray and the green; both productive, and (when separated from the skin that surrounds them) a food of excellent quality for man; wholesome, nutritive and plesant; and for cattle, whether in a dry or green state, much to be recomceonomically fattened on a mixture of pea and barley meal, in a state of acetus fermentation, than by any

The structure of the roots would indicate, that dence, that in Europe they are admitted only in long in regard to both number and form, we will probably ly, by their own fall, they ameliorate the soil and ren-

Following turnips, [as in the rotation we are now discussing] the preparatory labor for a pea crop, is not great. One, or at most two ploughings, will be Sowing, as a general rule, ought to follow ploughing, without loss of time; and care should two methods, row and broad east sowing, may be intilled; but not, as some have supposed, with such and labor, of the latter-

The length and feebleness of the stems of peas, and the little tendrals they throw out for support, indicate the advantage of mixing with them other plants of more erect growth, which may prevent the peas from falling and lodging For this purpose, rye, oats and

This crop is employed either in a dry or in a green state; between which every farmer will select, according to circumstances. If the market for peas be viated, and two ploughings of a clover lay are in general amply sufficient. Still, this takes for granted, that these ploughings are well performed; that no lods are to be seen and the field presents an unbrok-lods are to be seen and the field presents are to be seen and the field presents are to be seen and the field presents are to be seen and the field presents are to be seen and the field presents are to be seen and the field presents are to be seen and the field presents are to be seen and the field presents are to be seen and the field presents are t

(To be continued )

FOR THE AMERICAN FARMER.

PROCEEDINGS OF THE AGRICULTURAL SOCIETY OF ALBEMARLE.

Papers communicated for publication by the Correspond-

ing Committee. No. 3.—On Draining.

[Read, Oct. 12th, 1818.]

Ridgeway, Sept. 26, 1818.

DEAR SIR, -Four years ago I made a small essay in draining after a manner different from any I had ever

It may be remarked, that lands which require to be drained, are always rich, and when thoroughly reclaim. ed by this process, are the most productive of my we (29) Misit ex eo loco, divo Augusto procurator have. The operation is one too of considerable labour and expense; and where open ditches are relied on, this labour and expense becomes in a measure annual, from the necessity of cleaning out with the space and trimming the banks of weeds, bushes, briars &c.; hence the superior advantages of secret or covered ditches, other particular state of the atmosphere; but Mess. tion. To repeat here what we have said there, would will be at once perceived, by which not only all this annual labour, but a considerable portion of the best an open ditch, with its bank, and the necessary wilth for torning a plough on each side of it, is not less than 15 or 20 feet, which in many cases is the extent of surface to be reclaimed; to say nothing of the loss of time incurred by frequent and short turnings of the plough.

These considerations governed me in the first experiment I made, the subject of which had been an oper ditch, for many years running through a piece of flat land, the distance of 300 yards, and conveying the vater of a bold and constant spring from the foot of a hill to a river. The expense of cleaning out with : spade, and trimming the banks, of briars, &c. (which b fore this formed a considerable item in the account of disagreeable and unhealthy labour) had been meur-red for several years, besides the loss of nearly half an acre of the best land

I determined to save this expense, and regain the Lind to cultivation by conveying the water subterrane ously For this purpose I opened a new ditch from the river to the head spring, two feet wide and two feet deep, the sides of which were cut down perpendicular- GENTLEMEN, ly, instead of giving them the usual slope. At the bottom of this ditch, and exactly in the middle of it, I cut a channel 6 inches wide and 6 inches deep, into mon grubbing hoe was the instrument used in doing ing facts to your consideration:this; but I think a more convenient tool, something like a spade of the proper width, could be made in any blacksmith's shop. This channel should be made however, larger or smaller according to the size of the stream, to be conducted, allowing for the increase more than two years ago, to make trial of oxen, four pounds. of water in wet seasons, with a gradual and regolar and bought one pair. At that time, I am al fall Stones which were near at hand were then obside across this channel, resting upon its two banks at the bottom of the ditch. The stones for the first course should be so long as to bear at least 4 inches their obstinate prejudices against the use of ations, he may be fatted, and sold for much on each bank. If they are rough and do not come well them. together, other stones may be carefully laid on the top so as to cover the openings, and if convenient, it will bourer, who, though totally unused to them, be advantageous to fill the whole ditch with stone to was willing to take purpose rains to be selected. that may be contemplated. The work was begun at the upper end and proceeded downwards, that the became tractable, and as handy both at plough-gentlemen) are frequently role by servants withchannel might be cleared of any obstruction that might ling and carting as any horses. The whole was then covered thickly with fall into it. straw and the earth returned. Ramming is unneces-

Ploughing and other operations of husbandry have since been carried on over this ditch as if noncexisted, and the purpose of draining the land has been com-pletely answered. A much frequented road passes over one part of it. It has now stood the test of four years under an annual crop, in which time the whole has been twice overflowed by the water from the river, for 24 hours at a time, and no part of the vent at all injured or obstructed. I consider the work therefore, as done for ever, and the expense I conceive to be greatly less than any other mode of secret draining. I found that the same hands could place the stone and return the earth in less than half the time they spent in cutting the ditch.

sary, as the earth will quickly settle to a proper firm-

In the northern states where the practice of drainone course of stone perpendicularly against one side of the ditch, and another course leaning against it, forming an angle of about 45 degrees. But this is certainly, not only more tedious, but requires a double por than eight hours time: I believe they will do it thod, that I think it far preferable. shape to make the channel uniform and sufficient know they perform. Arator, a distinguished writer on agriculture, and one of the first practical farmers of our state, recommends a deep and wide ditch to be filled with brush covered with straw or leaves, and the earth to be returned and in time decay; and the mode should only be resorted decility. to where stone cannot be procured. In our hilly country stone is generally abundant; in many places so much so, as greatly to impede the operations of the farmer. By converting it to the use I have mentioned, oven will draw eighty bushels of barley, or oats, by more material advantages; and can with

ing lands are saved. The land lost to cultivation by land his wet lands reclaimed to cultivation by the same meration.

With great respect, yours,

P. MINOR.

Mr. Marison, President of the ? Agricultural Society, Albemarle §

On the comparative utility of

### OXEN AND HORSES.

IN HUSBANDRY.

FROM BATH SOCIETY PAPERS.

#### No. II.

Bougham, near Bury, Suffolk, Dec. 17, 1781.

As one of your queries to the High-Sheriff's respected the comparative utility of lorses and which all the water immediately collected. A com-loxen in husbandry, I wish to submit the follow-

About five years ago, I took some land into most certain there was not an ox worked in year after he is seven years old; and is scarce. this country; on which account my working it has blind, incurably lame, or

> At last I was fortunate enough to select a la- fat sooner after work than before. was willing to take proper pains to break them. ses. I have never had one indisposed.

resolved to dispose of all my draft horses, and pleated my plan, and have not a single cart-horse plentiful; which I think would be a national but the work of my farm (which consists of up-benefit.

wards of one hundred acres of arable land, and That it may not be thought, that a pair of shape) they are drove with bridles, and bits in day. their mouths, and answer to the same words of I am well aware, that the method of working the ploughman or carter as horses, and as readoxen with a yoke spares a considerable expense tion of stone, and that too of a particular size and in seven, but I would not assert more than I

land, occupied by the ditch, the bank and the turn the would find his hills freed from a great nuisance lin a wagon, with ease; and if they are good in their kind, will travel as fast as the horses with the same load.

I frequently send out eighty inches of oats with only three oxen; and terty lust als with one ox, in a light cart, which I think of all others the best method of carriage. My workmen are now perfectly reconciled to the use of oven and the following reasons determine me to prefer them greatly to horses:

1st. They are kept at much less expense. -Mine never cat corn or meal of any sort. During the winter, they are kept in good order for work upon straw, with turnips, carrots, or cabbages for want of either of the three latter, I allow one peck of bran a day to each ox, whilst in constant work. When my straw is finished, and the spring advances, they eat hav; and if they work barder than common in the seed time. they have bran beside. When the vetches are fit to mow and give them in the stable, they have nothing else. After the day's work in the summer, they have a small bundle of hav to eat, and stand in the stable till they are conl, and are then turned into the pasture.

I am of opinion, that the annual difference of my occupation, and having found the expense expense in keeping a horse and ox, each in conof horses very great, I determined, somewhat dition for the same constant work, is at least

2dly. The value of a horse declines every added much to the trouble of breaking them, by very old. But if an ox is in any of those situmore than the first purchase; and will always

3dly. They are not so liable to illness as hor-

out their master's knowledge, and often injur-Being well satisfied with their performance, I ed by it. Oxen are in no danger of this kind.

5thly. A general use of oxen would make substitute oxen in their stead. I have now com- beef, and consequently all other meat, more

sixty of pasture and wood) is performed with oxen will plough an acre of land in a day only ease by six oxen; together with my statute-duty upon a very light soil; I must add, that the on the highways, timber and corn, carting har-greater part of my arable land is too heavy to rowing, rolling, and every part of rural business grow turnips to advantage. When my light-They are shoed constantly: their harness is ex- or land are in fine tilth, I make use of a donactly the same as that of horses, (excepting the ble plough; a single man holds it, and drives necessary alterations for difference of size and one pair of oxen, and will plough two acres a

ing with stone is common, the method is, to set up dily. A single man holds the plough, and drives in the article of harness; but they move so much a pair of oxen with reins; they will regularly more freely with collars, and can be used with plough an acre of land, every day, and in less so much more advantage singly by the latter me-

After experience has inclined me to give the preference to oxen, I will not omit in my ac-I have a small plantation, in which the trees count the only material inconvenience I have are planted in rows ten fect asunder; the inter-found in working them; which is, they are vals are ploughed by a single ox with a light troublesome in shoeing, at least I have found with straw or leaves, and the earth to be returned and rammed. Bot not to mention the great labour and explough; and he is driven by the man who holds them so in this country; and, I believe, chiefly nease of this process, it is certain that this work must it. I mention this as an instance of their great because my smith never shoed any before. I have them confined in a pound whilst they are My oxen go in a cart single, or one, two, or shoed, and a man attends the smith. However, great truth affirm, that the longer I have worked oxen, the better I have been satisfied with Three ditto of beans, seven ditto winter

With great respect, I am, Gentlemen, Your most obedient servant.

R. KEDINGTON.

London, Dec. 8th, 1804.

SIR,-You will have the goodness to express to the Bath Society my regret that I cannot attend its anniversary meeting, as was my inten-

On the subject of my claim to the premium for a change of sheep stock, &c. I have only to but still to be allowed for, probably amounting observe, that it was made at a period the most unfavourable to stock, when distress for keep of all sorts was greater than I have ever known: and that whether the premium be adjudged or not to me, I shall ever consider the favourable reception it met from the Committee to which it was referred, the able essays which it produced, and the recommendation which this Committee, numerously attended, has unanimously given to this general meeting that it should he awarded, together with the proofs since produced, as decisive on this most important question.

The return of my year's labour with oxen was made out for the year 1803, because the year 1804 not being expired, to have made it without the amendment, since resolved on, would have been a palpable error. I now comply with the repeated and earnest wishes of the

Unprepared as I was, it would have been impossible to have done it with that degree of accuracy which I shall adhere to in any statement of serious import to the public; but the rules which govern the proceedings of the Bath Society allowing me time to examine my own books, and to obtain replies to certain needful questions, I have great pleasure in stating that the following without injury to the growth of the stock. report is now presented to the Society in substance, I trust, correct. In that part of the has been, cannot be found to injure the health statement which reduces the hauling and carting of manure to be equal to a given number of acres ploughed, I have profited by the kind as- the time they are turned out of work, will fully sistance of Mr. Paul, and Mr. Gordon Grey.

one acre, as a trial.

up to December 1st

Forty-four acres of ley ground broke up Fifty ditto of spring corn, two earths, scarified and dragged, equal to 11/2 more each. Sixty ditto of turnips, at three earths, cultivated, or scarificed and dragged, equal to 1½ earth Twenty-two ditto pease, at one earth, and broad-cast dragged, part of it drilled Fifty-seven acres of wheat, 32 acres on one earth, once dragged, and twentyfive of heavier land, twice ploughed and twice dragged Twenty-nine ditto of ley ground, broke

Carried forwards -

\* Butting. The lime being mixed with the foreheads or headlands round the hedges of the field, 18 from thence carried in implements called buts, bodily over the land—a laborious but good management.

Brought up vetches, two ditto potatoes, cultivating, dragging, &c.

Lime carried and "butted"; over the land, 160 butts, equal to two / 120 Hautings. acres work, heing a large proportion of 1920 hhds, or 9600 bush- 125 Butting. el of lime

Twenty-five acres of the turnip land dunged, equal to 301

Total - - 9551

Hay-harvest, corn-harvest, corn to market, hauling of timber, &c. &c. not easily calculated, Allowing for the three-yearold steers ninety acres, and eight half daywork of two-year-old bulls, worked occasionally with the steers for the purpose of keeping them quiet; allowing also as above the hay-harvest years, being nothing! &c. not brought to account; it will appear that the labour of the twelve oxen throughout the

sand acres.

The average amount of our labour is two acres of ley ground per day, and fallowing and sturring more than two acres; but the second aware of its extreme importance. Mr. Billingscross ploughing, or earth, somewhat less. Our teams consist of four oxen, a man and a boy, to each double-furrow plough, and to each four-wheel wagon. Our ploughing in general very deep, and our fields small, not exceeding 41 acres each on the average. These two circumstances are to be duly considered as adding ma-Society, in presenting this statement for its terially to the labour. The working stock consists of sixt-en steers and oxen, two bulls, and superior animals in labour, that I beg leave here three light horses, viz. six five-year-old oxen, to offer him my sincere thanks; and I have the six four-year-old steers, and four three-year-old honour to be, six four-year-old steers, and four three-year-old ditto. They are fresh growing stock, and are regularly turned out to graze after the barleyley-sowing, at six years old. The whole object aimed at is to carry on our course of crops on the most speedy and vigorous system, but

It is evident that my labour, severe as it long or growth of the stock: the exhibition of my oxen annually, within ten months grazing from exemplify this important fact. This was in No land ploughed with horses, save part of great part my object in establishing the Barbican of France, and upon comparing it with that of countries the usage of the country, within three weeks. acres were ploughed, sown, dragged, and har-book: rowed, in one day. In obedience to the wishes

663 of the Society, I present them with this statement; but I waive all claim to a premium. If, however, in the ordinary course of business, any man in this kingdom shall be found to have done more at a less cost, I shall consider myself as having trespassed unworthily on the notice of this Society. It is fitting to add, that in twenty years labour I have not lost one ox or steer, or ever broke a yoke or pair, by sickness, death, or accident. And I may further add. that so far from incurring any loss of value from working cattle after their full growth, as is supposed to be the case with horses, amounting to 25 per cent. or more; my own experince, and the concurring opinion of the Committee sent to examine our stock in the month of June last, warrant me in declaring, that working-cattle, from three to six years of age, do actually gain at the rate of 20 per cent. yearly; the loss in my own case, in twenty

The premium now in question, having disdirectly waived my claim to it, will probably he year, will amount to, if not exceed, one thousand awarded to Mr. Billingsley; and it gives me him. He has been a most strenuous and successful advocate for the labor of oxen, and is well ly has accomplished a measure hitherto untried. namely, to set out his ploughing by the acre, and to apply one team of oxen full grown, with two to assist, in all eight oxen, to constant ploughlabour, every day in the year that it was possible for them to work. I consider the attempt of such consequence to the landed interest, so momentous an illustration of the powers of these

With all respect to the Society, &c. &c.

SOMERVILLE.

To the Secretary.

FROM THE NATIONAL INTELLIGENCER.

On the Grape Vine, with its wines, brandies salt, and dried fruits.

No. Vi.

In the instructive volume of the Journey of Mr. Arthur Young, p. 315. (Pinkerton's Collection of Travels,) that judicious English farmer gives the following observations: "Upon a general view of the climate cattle-shew; and if I may be allowed to say so, not so much favored apparently by nature, I remark, the effect already produced, more especially in that the principal superiority of it arises from adapting countries where oxen were held in disrepute as so large a portion of the kingdom to the culture of the animals of labour, has exceeded my most sanguine expectations. That our crops are work french ones, though the farmer is enabled to draw ed in so expeditiously as to amaze those who as extensive profits from poor and otherwise barren, contend for horse-labour only, cannot be de- and even almost perpendicular rocks, as from the nied; in proof of which, fifty-seven acres of richest vales. Hence immense tracts of land may be wheat were this autumn ploughed, sown, and ranked, in France, among the most valuable, which, manured in a complete manner, according to more the British climate, would be absolutely waste, or at least applied to no better use than warthe usage of the country, within three weeks, rens for rabbits or sheep walks. This is the great although the weather was unfavourable, and the superiority which climate gives to that kingdom over land worked close and heavy. The last nine England." The following notes are from Mr. Young's

"Labor in French vineyards, in A. D. 1786, 2l. 10s. 9d sterling, per English acre, in the Isle of France, round Paris. At Estampes, 2l. 13s. 9d. At Orleans, 11. 13s. 9d. near it, on the south, it is said to be

" Rents, 25, 45, 60, 80, 35, 90, and 50 livres,

Price 220 livres; profit 50 livres per acre.

by the plough and harrow, with horses.

Produce, 163 livres per acre.

" Pellecoy. Pass vineyards, of which there are many so steep that it is strange how men can stand at their work. One third of the country under vines, they sive the cutting, (taille); in March they dig the which are planted on absolute rocks, but calcare-ground; in April and May they plant the provins.

" Cahors. Nineteen twentieths under vines-many more than two hundred years old! The true vin de or, in Cahors, which has a great reputation, is the product place. of a range of rocky vineyards that are upon hills in France; not always, nor often.

" .Mize. Produce per English acre, 81. sterling, ex-

on a level plain.

" Plaisance. Vine grounds double in price to wheat grounds In 441 degrees of north latitude.

". luch, and to the north. Many vines.

"Lectour. Many vines, on stony hills.
"La Morte Landron. Vines on hills. Price 501. The merchant selling, pays the same,

sterling per English acre. " Langon. Famous yellow wine. Land 501. ster-

ling per acre. Produce 151 sterling per acre.

"Barsac. Hills, that hang to the Garone, north side. An immense range of vines.

" Castres. Vines.

- " Bordeaux de Cubsac. Part palus, or bottom land, alluvion, and part high. Lands 611. 18s. 6d. sterling per acre is a common price; but in some places, vres per annum, to 1,100 000 livres. 1731, 11s. 3d. and even 1911. 19s. 3d. sterling per
- " Cavignac. They make much brandy: make tar-

much fine brandy.

"Angouleme Vines per acre, 10l, sterling. An ings, though France is so populous and wants land.
"Mangouleme Vines; much good brandy; brandy" "Nancy Laneville. Produce 8l. 12s. sterling, per immense range of vines; much good brandy; brandy one gallon for six of wine, in some places more; varies acre. from 1 to 4, 5, 6, 7, 8, and 9.—Verteuil

with vines, sell qually with their best vale lands, in 46th degree north.

"Touraine. Wine and vines.
".Imboise. Vines per acre, 431. 15s. sterling.

almost a blowing sand. Two thousand acres under the eye at once. Nearly all made into brandy. "Petiviers, Isle of France, Liancourt, vines. Wines,

so far north, bad.

- Great region of vines along the river, though far 1s. 4d. per acre Price 5111 17s. 6d. sterling per mena of nature, and the experiments of scinorth. Dung very little, many not once in fifteen acre. They make first red wine—also white.
- " Varades. Vineyards, 30l. sterling per acre.
  "Anjou, St George. Worst vines 200 livres per acre; best 500—(350 is 14l. 9s. 6d. sterling.) Much wine, not good.

" Ducatel. Vines higher than arable.

"La Roche Guyon. 616 8s, 4d. sterling per acre,

for vineyards.

- " Neuf Moutier. Rich district. Vines on slopes sell, on a medium, at 781. 13s. 3d. sterling per
- " Champagne. Two thirds of the country round Ay, (in 49 degrees N. lat.) Gumier, Piery, Disy, Hautvilliers, &c. under vines; and here all the famous Champagne wines are made. Arise, Aunge, Lumenee, Cramont, make the white wine, with white grapes only. At Ay, Epernay, and Piary, the white wine is made with the black grape only. At Airy, also, first white wines are made.
  "Angers, on the Loire. Much wine made of a

quality generally not the best. By manuring much is "Labor at Colongne, 12 sous per day and food: made, but of an inferior quality. Value of vine lands, 1786." In the United States, we reduce human labor. 471. 5s. 3d. sterling per acre. Produce, 9l. 14s. 4d. sterling per acre. Women gather the grapes. The utmost care is taken to pick out inferior bunches and lecayed grapes.

" As to the culture :- in the middle of January or cut slips of the vine; in June tie and hoe the septs, or growing vines; in August hoe again; in October, or, in good years, in September the vintage takes

"The vines are planted promiscuously, three or hanging to the south, and is called Grave wine, (vin four feet asunder, or two and a half; are now about de grave or gravier.) of the stony (gravelly) soil cighteen inches or two feet high, and are tied to the to the agricultural pursuits of his native country. He Much brandy. This wine is as full bodied as Port props with straw bands. Many plantations are far believes that the British climates constitute the only, Red and white wine is made of the red grape; white from being clean; some full of weeds: many hands but an insuperable, impediment. It is believed, that, wine of white grape. Ploughing is done among vines on the hills. Steeping the black grape, before press after similar inquiries in the United States, and after sing, makes red wine.

"They press with a wheel-preferring the power clusively of labor. Plants at 4 feet, of France, square; being 4 leet 4 meches.

"Road to Nismes. Several thousand acres of vines [The reverse is the case in the United States.]

"Two hundred livres in wine, when sold by the proprietor, pays (in 1786) various public duties of transfer, of five per cent. of augmentation, gunge, constage, &c. of Octroi of the town, and king, in all 25.0

Each buyer, who sells it, the same, Port duties on export,

tavern keepers and retailers pay 30 to

40, say "The ecclesiastics take sometimes their tenth strictly; sometimes compound for a less value in

"The wine trade of Rheims is worth 800,000 li-

"Lorraine, Verdun, Metz. Vines. Braban. Vines.

" Pont au Monsson. Vines. Many new vineyards are tar, or the selt of wine.

planted, and on lands suitable for wheat, (A. D. 1789.)

"Angumois Petignac, to Roulet. They make The vineyards steadily increase. The income is said to be 10 per cent. on lands, vines, and farm build-

om 1 to 4, 5, 6, 7, 8, and 9.—Verteuil

"Alsace, Strasburg, Schelestadt, Isheim.—Vines.
Poitou, Chateau-rault to les Ormes. Poor hills produce 10t. 7s. sterling, to 16t. 12s. 6d. per acre.

" Franche Compte, Besaucon. Vines. Lands in vines worth 1231. 6s. sterling, per acre.

" Bourgogne Dijon. (About 47 degrees north Lat.) ". Imboise. Vines per acre, 43l. 15s. sterling.

"Blois to Ghambord, on the upper Loire. Almost 9d. But the fine vineyards of Veaunes, Romane, and

of France. It is walled all round, and has no trees in it. Vines two or three feet high now; stand promis "Nantes to Ancenis, Vines. Promiscuous and no cuously. The soil is a brown loam, inclining to red, with stones in it, which prove on trial calcareous, "Ancenis, on the north side of the river Loire. It is at the foot of a hill, which is rocky. Produce 461

" Auys, Burgundy. Vines, 511 3s. 9d per acre.

" St. George, Richebourg, Chambertin, Coterote, and above 1,100 000 livres, in 1793 or 1794.

"Manure with dung is avoided, in respect to quality; though it increases quantity. The safest manure is good fit earth or soil.

" Beaome, Burgundy. Vines among calcareous stones. Valay, Aloes, Pomer, Savigne, Mulso, (white,) and Maureauche.

" Chagnie. Vines and Couch.

"Bourbonnois, Molins, Riaux. Vines. "St. Penorin. Vineyards on hills.

". Ivergne, Riom, Clermont, Izoire. Vines.

" Brinde. Vines, on rocks, and rocky declivities. Thirty-five sorts of wine here, better than the red in the formation of a plant, and the ripening of wines of the rich plains.

" Dauphine, Montetimart. Nines:

"Provence, Avignon, and Aix. Vines. Also at Tour de Acugues and Hyeres.

" dedium of many costs 611. 8s. sterling, per acre; but deduct the most costly, the average is 41l. 10s. 6d.

" A fair average may be 45% sterling, [or \$200] per acre, cost; and 91 ?s sterling, per acre, gross pro-

duce, [being \$40 44]"

Thus ran the observations of Mr. Voung, above birty years ago; which, though much condensed, afford a variety of useful lights on the subject, which we have undertaken to open to the view of our country. His journey through France\* and Piedmont merits our utmost attention for he was engaged in an intelligent and diligent inquiry into the question, whether the profitable culture of the vine could be added considering the vineyards of Cohauila, and those of the two Harmonys, of Vevay, of Glasgow, and the two Carolinas, with the genial regions of the orange, the cane, the rice, the indigo, the fig, and the peach, the judgment of Mr Young on the subject of the vine would be decidedly in favor of the capacity and prospects of the United States.

A Friend to National Industry.

Philadelphia, Nov. 9, 1819.†

25.0

250

15.0

\* It was first printed as a substantive work, in two volumes, and has been also inserted in Pinkerton's Collection of Travels.

† See No I to 5, in the National Intelligencer.

### For the American Farmer.

#### AGRICULTURAL CHYMISTRY....No. II.\*

There is no branch of chymical science more neglected, and certainly none more generally useful and extensively beneficial to mankind than agricultural chymistry. The laws of chy-mical affinity are the laws of God, by which all material matter is changed, decomposed, and reformed. The rolling of a thunder storm, and the silent crystallization of a salt, are alike evidences of the implicit obedience of matter to these laws, and daily experience teaches us that they are as unchangeable as the truths of Holy Writ. The rocks and hills praise their Almighty Creator, and have never ceased to act in obedience to his command; the mind of all the country vines, and many new plantations, on Tash, &c. sell for nearly 135t. sterling, per man is alone privileged to obey or disobey. The growth of his body, and the movements of "Clos de Vougeaud. The most famous vineyard his fund for its support, are placed beyond his control, by their obedience to those laws which govern the material substances on the earth.

The present knowledge of these laws has been acquired by observations on the phenonce, which have proved the existence of the aws of affinity. Further experiments may yet produce a more perfect knowledge of them, and nthers, above named, are the best vineyards of Bur-furnish to man still further evidences of Algundy, after that of Clos de Vougeaud which seld for mighty Wisdom. The idea of finding a pabulum for the growth and support of vegetable life, is as visionary as the idea of the philosopher's stone, or an universal specific, and with them will be proscribed from the pages of science. and the consideration of common sense. Experience has taught us that a mixture of various earths in connexion with the action of water, and the presence of the atmosphere, are necessary for healthy vegetable life, and that the rays of the sun, bears no inconsiderable share

<sup>\*</sup> For No 1, see page 183.

chymist is, what earths, what combinations, and springs of the great valley of Conococheague, of Pennsylvania, and after 10 years, I should what proportions of them are best calculated and the Shenandoah. The various forms of shew 120 bullocks fattened on my farm; an infor any particular plant or species of plants: Silex serve to divide the mass, and give it the creased quantity of tobacco, wheat and ma-With this view 1 will enumerate the chief pulverulent form, necessary for the admission nure, &c. annually, and the land much ferti-earths, acids and metals which compose the of air, and the process of vegetation. A. B. M lized—

Earths.

Carbonic Acid Lime Iron . Sulphuric Acid Alumine Nitric Acid Silex

but of itself is incapable of supporting vegetable approved mode of farming in this state, and that, or my rustick manner has been so unlife. Its natural affinity for acids is so great, pursue one entirely different. I was much dis-happy, as to wonderfully excite the sensibility that it invariably takes from the atmosphere the satisfied with the frequent use of the plough, he of your very modest and courteous "friend," carbonic acid; by this gradual absorption it be-ling convinced that it was a most expensive and who appears willing to deny the prerogative of comes changed into calcarious earth, limestone pernicious method of farming-It appeared to plain speaking to all but himself-It was not for or chalk; in this state it receives the chymical me, that in our agriculture, clear profit and me to know or enquire whether you were enor chalk; in this state it receives the chymical me, that in our agriculture, clear profit and me to know or enquire whether you were ename of carbonate of line, this substance being progressive permanent fertility, should be prisolated in water, a part is taken up in mary considerations—The best plan that I could it was neither the business of myself, nor I presolation at every fall of rain, and conveyed to devise to accomplish these important objects, sume that of "a friend," you had promised us the fiberous roots of vegetables. Which seize on was the following—I possessed 150 acres of arabis process of earth burning, and my intention to which had within a few years, been so was to remind you of a pledge not complied nourishment, which has given to sail in which had within a few years, been so with as I supposed, from multifarious engagements and which has given to sail in which years as to produce generally a laxyriant growth. growth, and which has given to soils in which verty, as to produce generally a luxuriant growth ments antil it had been forgot. You will rethis species of earth is predominant, the charac- of clover. This farm was to be divided into 10 collect that when my queries were made, you ter of fertile. Pure lime is not found on the lots of 15 acres each, one of these divisions had published nothing on earth burning. earth, it is only produced by the action of fire, was to be manured from the dung already ac- I would with the utmost deference and humi-

the formation of good soil. Clay appears to lots were to afford a crop of hay, a crop of clo-assertion as inapplicable, as his notice of my possess but little chymical action in soils; its ver seed, and then they were to relieve the queries was unnecessary. The enquiry was properties are rather incchanical, and the extra-other divisions by affording pasture-as the not for the most natural food of animals, but power of retaining water, is happily provided heads would only be taken off and the stalks and for the most profitable ose of Ruta Baga, and by nature to counteract the evaporating power leaves still left, and a succeeding crop coming as grain was to be abandoned for Ruta Baga, it

classed with the earths: Its properties are not should graze the other lots closer than would barley." As my queries have engaged the atonly mechanical, but chymical, and necessary be desirable, besides losing the pasture of all tention of "a friend," it might be gratifying to towards the formation of some plant, particular the clover that dried-hut it was intended to him to know, that I have this year raised uply wheat, whose stock receives strength, soli-gather the seed with the common grain scythe wards of 100 bushels of Ruta Baga, from 1 of an dity, and its brilliant surface from Silen. The and cradle, which can be used as soon as the acre of ground, (and was not imposed on by necessity of a mixture of these earths will be seed is ascertained to be well filled, and with seedsmen) the largest of which weighed, when obvious from the following considerations which a man can gather 5 acres of seed a day, trimmed, from 7 to 9lb. and measured from 17 The calcarious earth alone hardly possesses the and do it much cleaner than 1 ever saw the rake to more than 25 inches in circomference, and power of supporting vegetation, and its evapo-do, under any circumstances—The hay and the I have ascertained from accurate experiments rating power is so great, that it becomes wet and straw would winter my stock cattle, cows and that hogs feed on Ruta Baga boiled, will fatten dry as it were in an instant; it would therefore oxen, and with a little grain, my horses too, and half as fast as if fed on corn, and will eat four always require a constant and regular supply of my hogs would be in such condition from the times as much in the same time; or to be more water without intermission, by the addition of clover and kitchen offal, that they would re-perspicuous, a hog that will require 4 bushels Alumine, or clay, the power of retaining water quire but little grain to fatten them. I should of shelled corn, and 6 weeks to render him any is obtained, and the stiffness and excessive re-then calculate on 15 hogsheads of tobacco; 300 given weight will require 32 bushels of boiled tension of the clay is broken by the drying pow-bushels of wheat, 60 bushels of clover seed. Ruta Baga, and 12 weeks to attain the same er of the calcarious earth: there is yet how-and 20 fat bullocks, with dung amply sufficient weight.

Ever, an obstacle to the operations of the hus-to manure 15 acres, to be expended on bandman, and his labours would be lost, if the another lot of tobacco. My wheat should be Culloch, for his prompt and polite attention to materials of his soil was confined to these two succeeded by clover, timothy and orchard grass, one of my queries, I will cease to trespass on articles. This mixture would produce a kind (sown with Bennett's grass seed machine, a most your columns, and I fear your patience. of porus mortar which would defy the action or finvaluable and indispensible impliment of hushis implements; kind nature has therefore fur-bandry) and by the time I came round to this P. S. From an analysis of Sir Humphrey nished him with Silex, in the various forms of pasture, I should expect each acre to pasture Davy, it appears that one bushel of rye affords silectious powder, sand, pebbles, and stones, or where these have not been liberally bestowed, \* Vide "The error of American Agriculture ex- ta Baga; and that one bushel of trish potatoes has given an equivalent in magnesian earth, posed," by T. Moore, a work in the hands of too few gives as much nutritive matter as 33 bushels of and supplies of water from subterranean streams practical farmers.

TO THE EDITOR OF THE AMERICAN FARMER.

Lime is the basis of the most fertile earth, it in contemplation to abandon the present most as soon as it is taken from the kiln it acts in cumulated, and planted in Tobacco, which was obedience to the laws of affinity, by taking up to be succeeded by wheat, leaving 8 lots in clowhatever acid it meets with; this natural tenver, 4 of which was to pasture 20 bullocks. 3 he learned, that it "was contrary to the very dency to neutralize itself, is a provision of good milch cows, two oxen, two horses, to annature, for the formation of a soil.

Swer the treble purpose of farming—carriage Ruta Baga and any thing else, but grain? unsured to the surface of the contraction of a soil. Alumine or clay is the next in importance for and saddle, and a few good hogs—the other 4 til he imparts this information, I shall think his of calcarious earths, which is the first approach on. It was not proposed to gather the heads will be obvious, why it was necessary when towards a good soil.

Silex, or sand, gravel, &c. This third great clover is very dry, and standing up, and hy hed successfully sown in the fall to bring in a body of the soil, though not an earth, is usually waiting so long before gathering the seed, I crop of clover afterwards in place of oats or

its fruit. The chief subject of enquiry for the mean the surface as evinced by the limestone and winter a bullock, as was done by Mr. West

When Mr. Cobbett called our attention to Ruta Baga and other roots, I was persuaded they might be profitably substituted for tobacco. as I detested the idea of sending off the farm, Mr. Seinner,-Before any thing appeared what could be profitably consumed and convertfrom the pen of Mr. Cobbett on Ruta Baga, I had ed into manure on it; this sir, occasioned the queries that appeared in the Farmer, page, 173,

A SÚBSCRIBER. as much nutritive matter as 121 bushels of Ru-Rata Baga.

### Occasional Extracts,

EXTRACT OF A LETTER TO THE EDITOR, DATED

Bowling G een, Virg. Dec. 16th, 1819. "Notwithstanding the excessive drought, na ture seems, in some instances, to have been unusually kind. Of the many extraordinary progrowth of the common turnip, sown by me in July; from about one fourth of an acre, I have sixteen tumbril loads, after having used freely for family use, until about the middle of November, and they weighed, generally, from 10 to 15 lhs. each. My Ruta Baga sceded about the same time are very large, from S to 15 lbs .-But I have but few of them in consequence, I believe, of defective seed."

Mr Skinner,-The following method of preserving butter, I have tried, and found it to answer my most sanguine expectations. As in 1810 (Spring) I put up a small quantity for ship stores, went to the coast of Africa, where I remained between four and five months, and did not get home until the winter following. being absent near ten months. When upon landing the remains of my stores I found one or two small pots of butter, which upon tasting ! found as good as the generality of butter offered for sale in our markets,—which in my opinion their teeth, and the best way to preserve them, that wards, hard with the finger, and they will, in most fully tests the Receipt; for the climate of tha part of the world is such, that it is next to an impossibility to succeed in curing provisions by any process, or through the agency of salt, in no produced, joined with my own experience. matter what quantity, viz. For every pound of butter take balf an ounce of best common salt. one quarter of an ounce loaf sugar, and formation of the permanent teeth. At about se- I will remark, for the satisfaction of those at a disquarter of an ounce saltpetre; beat them up together and blend the whole completely.

Butter thus cured requires to stand three weeks or a month before it is used; if soone opened the salts are not sufficiently blended with it .- The smaller the pots the better for sea |tip-for when it has once got its direction, it will voyages; as the frequent admission of se

air will soon turn the butter rancid.

Yours truly, WM. B. BARNEY,

Baltimore, Dec. 12, 1819.

FROM THE NATIONAL INTELLIGENCER.

TO THE EDITORS. Baltimore, 8th of 11th mo. 1819.

Francis, of New Haven, concluding with these and will take care of themselves. words, respecting the wire grass of which the American Legnorn is made: --- that electronic formula, restraw, over-lap, push each other out of the rank, and Actual sales of Wheat -- White, St 7 to S19duce, till informed to the contrary.

Leghorn hat-, which, in this country would self nent back teeth appear, in a short time they will for 15, 20, or 25 dollars each.

from motives of public spirit, for it points out a between them which will fend to their preservavaluable branch of industry, which is well wor tion; for, it is observed, when teeth are situated so thy national attention. It is adapted to female close as to press hard upon each other, they alemployment, from its domestic nature. The most always fall into a state of decay. Sometimes ductions I have seen noticed, but few surpass a ladies of Connecticut, who have originated this the upper jaw is so narrow, from side to side, the their country; for if their example is properly project very much over the teeth of the lower jaw. followed, it will prevent an annual tribute being If the first Bieospide, (small double tooth) be exsent to Italy to procure a manufactured article, tracted early, the teeth will fall into a regular which may be procured at hume, at a reduced course. price, equal in quality to the imported article, and in quantity abundant for consumption.

question, my authority can be of service, in a the teeth clean cause so amiable in its origin, and benevolent in its nature. I remain, &c.

JOSEPH LANCASTER,

#### THE TESTH.

communication to the publick:

I am so often asked the question why people lose I will again give the best information in my pow-cases, return, the gums being elastick. er on this all important subject-information, as laid down by the most eminent writers England has so much recommended to be extracted, at about

Children's first teeth, when decayed, should be extracted, as they are liable to prevent the ease and safety, more particularly at this early age. ven years of age, the child's mouth should be tance, that the above information has been twice frequently examined by a dentist, in order that an laid before the inhabitants of Philadelphia, and o structing first tooth should be extracted, before they have been invited to contradict it, if not valuathe permanent tooth is seen coming through the ble and true; but no one has done it. gums, pointing towards the tongue or towards the keep it; but, in many parts, there is no dentistin that case, when parents perceive a fullness or swelling of the gum inside the mouth, it is a sign the second tooth is coming, and it is then proper to extract the first tooth, to give the second roum to come regular; but to go into all particulars would almost fill the paper.

About thirteen years of age is the all-important time to insure the child good teeth during life; but be published as soon as we can find room for it. - The Respected friends: Observing in your paper it is necessary to mention, that where a child's receipt for making Tokay has been mislaid, but will of yesterday's post, an article on the subject of teeth are wide apart. (and some children's are) very some the recovered -it would be matter of "American manufactures of straw," by Simcon they want no assistance, they have room to grow,

hildren, whose jaws are narrow-mouths American Leghorn is made :- 'I have been told small-teeth large-grow one above another-

witness of the fact, I lose no time in saying, I have seen ladies' Leghorn hats made of rye those in the lower jaw stomach-teeth, are exceeding-straw, of English growth, in such a degree of perfection, as, by their similarity, completely to mislead the London merchants and dealers in the article, to believe them of foreign products of the first long, and two in the lower jaw stomach-teeth, are exceeding-straw, of English growth, in such a degree of perfection, as, by their similarity, completely to mislead the London merchants and dealers in the article, to believe them of foreign products of the first long, and two in the lower jaw, (some persons call of Paris, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 50-Do. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the stone, per ton, \$6 to \$5 -Da. \$0 -Rasis, in the st tract the first Sienspide, (the first double tooth) Calvert county, do. on Tuesday, at 86 & 88, and all Rye, adapted to this purpose may be grown on on each side, and where the teeth are crowded, the most barren land; the coarser kind is used considerable advantage always attends their extraction. If they be extracted before the power.

No change in the price of North Carolina Staples, for the coarser articles, and the finest is lit for traction. If they be extracted before the perma-since tast reports

not be missed, as no space will be left. The front I hope the editors of papers throughout the teeth will derive much benefit from this gain of Union will insert the article of Simoon Francis, room, as there will probably be left a small space American manufacture, merit the gratitude of teeth in the front parts are thrown forward, and

After this, the teeth require very little assistance, only, when the front ones grow up, separate them-When duty allows me, I am rather anxious to continued pressure on any one bone in the body will avoid appearing before the public, but in such a break it; and when black specks appear between case as the present, I am willing my signature the teeth, they should be immediately removed, beshould be public, if, as determining the fact in fore the mortification progresses to far, and keep

If a tooth gets a hole in it, let it be plugged in time; and decayed teeth shoold not be allowed to press against sound ones. If people do not like to have them extracted, let them be senarated. If the gums leave the teeth, which is very common A Dentist in Philadelphia makes the following take off the tartar with proper instruments. Apply often soap to the bare parts of the tooth, and press the gums, very frequently, upwards or down-

The roots of the small double teeth, in each jaw, thirteen years of age, are very short, small and close together; and these teeth extract with great

Wor. Gaz.

### FARMER.

BALTIMORE, FRIDAY, DECEMBER 24, 1819.

The communication from C. K. in reply to some inquiries, by "Synney" concerning fallow crops, has been received and will appear in our next - A long and interesting paper, sent to us for publication by the Agricultural Society of Prince George's county, will special regret to lose any of the few, but choice things we get from that quarter.

Present Prices of Country Produce in this Market.

that where the grass cannot ne 100110, tye straw, press hard against one another—these are the substitute: whether this is a fact I am unable to determine"—as I happen to have been an eye

The four eye-teeth, (uspidites) two in the up-straw. S11—Pour, fresh, S5 1.3 to S6-Plasten Straw. S11—Pour, fresh, S5 1.3 to S6-Plasten Straw. S11—Pour, fresh, S5 1.3 to S6-Plasten Straw. S11—Pour, fresh, S5 1.3 to S6-Plasten Straw. S11—Pour, fresh, S5 1.3 to S6-Plasten Straw. S11—Pour, fresh, S5 1.3 to S6-Plasten S150—Pour S

### prices current

AT BALTIMORE:

Constully Revised and Corrected every Thursday

Carefully Revised and Corrected	l ever	ry <b>T</b> hu	rsday
ARTICLES.		RETAIL	PRICE
BEEF, Northern mess	նե <b>հ</b> .	17	
No 1		15 13 50	
Bacon,	lb.	16	1
Butter, Forkin	Ì	18	2
Coffee, first quality,		27	2
Cotton,	ł	27	_
Twist, No. 5,		45	
No. 6 a 10, - No. 11 a 20, -		46 53	
No. 20 a 30,		80	
Chocolate, No. 1,		33	
No. 2, No. 3,		28 25	
Candles, mould,	box	20	2
dipt,		18	1
spermaceti, -	lb.	10	scarce
Cheese, American, Feathers,		60	
Fish, cod, dry	qtl.	3 50	
herrings, Susquehannah, mackarel, No. 1 a 3	bbl.	2 75 9	retail †2
shad, trimmed,		7 75	7 8
Flour, superfine,		6 50	7
fine,	bb <b>l.</b>	5 50 4 50	6 <b>5</b>
middlings,		4 30 4 a	4 2
Flaxseed, rough,		none.	
cleaned,	bush		
Flax, Hides, dryed,	lb.	do 12	1
Hogs lard,		12	1
Leather, soal,	1	25 -62 1-2	3 7
Molasses, Havana, New Orleans, -	gal.	75	
sugar house,		1	
Oil, spermaceti,	gal. bbl.	1 50 18 a	20
PORK, mess or 1st quality, - prime 2d do	יומטו.	16 a	17
cargo 3d do		14 a	15
Plaster,	ton bbl.	5 1 75	
ground	lb.	6	
Spirits, Brandy, French, 4th proof	gal.	2	3
peach, 4th proof		1 25 75	15
apple, 1st proof Gin, Holland, 1st proof		1 50	
do. 4th proof			
do. N. England		50 1 50	2 6
Rum, Jamaica, American, 1st proof		75	
Whiskey, lst proof		50	
Soap, American, white,	lb.	18	
do. brown, - Sugars, Havana, white,	1	19	
brown,	1	14 50	15
loaf,	lb.	25 20	a 2
lump, Salt, St. Ubes,	bu .	70	
Liverpool, ground,	1	75	1
Shot, all sizes,	lb. cwt	7	
TOBACCO, Virginia fat, do middlings,	CW L.	6 50	
Rappahannock,	1	5	5 5
Kentucky,	lb.	6 50	
small twist, manufactured, pound do	.	50	
TEAS, Bohea,		63	
Souchong, Hyson Skin	lь.	75	
Young Hyson,	ł	1 25	
Imperial,		1 75	
WOOL, Merino, clean, unwashed, -	1	80	ı
crossed, clean,	1	65	•
unwashed	{	35	
common country, clean, unwashed	, l	25	4
skinner's,	1	35	
	•	*	

FROM THE FAMILY HERBAL.

### Common Walnut Tree.

JUGLANS REGIA.

#### DESCRIPTION.

This is a large beautiful tree. Leaves pinnated, consisting of several pair of opposite pinnæ, with an odd one at the end. Flowers in April and May, and the fruit is ripe in Sep-

#### HISTORY.

This tree is a native of Persia, but bears our climate wonderfully well, and produces ahundance of a very excellent fruit, much eaten after dinner. The wood is very durable, and hears a fine polish, and surpasses in beauty mahogany or any other wood. It is the only wood proper for gun stocks, as it is very hard, as may be convenient. At the end of that time and does not split.

#### MEDICAL VIRTUE.

The different parts of the walnuts have dif ing or husk, and the shell and peel of the ker-keep it well stopped for use. nels, are esteemed to be sudorific, especially if used before the walnuts are quite ripe; and they have been beiled along with sarsaparilla and guaiacum wood, in the preparation of decoctions used for removing venereal and rheu-berries may be substituted for it. matic complaints, and for expelling worms: is made of the walnut liquor, and gipsies dye of the ink, themselves with it, which proves very lasting. An oil is extracted from the nut, said also to destroy even the tape-worm, and it is better Y.) paper mentions, that two hogs, of 14 months than olive oil, and, never freezing, is used by old, were killed in that village last week, weighpainters. In France they burn it in their lamps. ing together 837 lbs. including fat.

#### HOW TO PICKLE WALNUTS.

Scald slightly, and rub off the first skin of a hundred of large walnuts, before they have a hard shell: this may easily be ascertained by cold brine, put new brine the third and sixth days, and take them out and dry them on the ninth. Take an ounce each of long pepper, black pepper, ginger, and allspice; a quarter of an ounce of cloves, some blades of mace, and a table spoonful of mustard-seeds: bruise the whole together, put into a jar a layer of walnut-, strew them well over with the mixture, and proceed in the same manner till all are covered. Then boil three quarts of white wine vinegar, with sliced horse-radish and ginger, pour it has One and one only of these useful machines are over the walnuts, and cover close. Repeat the now on hand, and for sale at my shop in Public boiling of the vinegar and pour it hot over, Alley, Balimore. three or four days, always keeping the pickle closely covered; add at the last boiling a few cloves of garlic, or shalots. In five month- VINE's in Alexandria. they will be fit for use.

From Niles' Weekly Register. Beautiful Ink .- Many gentlemen who receive the Register, have asked where we ob-

tained the ink with which it is directed ?-We make it for ourselves, and the following is our receipt: for which we are indehted to Joseph James, esq. If the ink is carefully made, according to the directions (though in the last we made they were much neglected) it is of the best quality of any that we ever met with.

Improved composition of black writing ink.

Take a gallon of soft water, and boil in it 1lb. chips of logwood, for about half an hour, then take the decoction from the fire, and pour it from off the chips, while boiling hot, on a pound of the best Aleppo galls, reduced to a fine powder, and two ounces of pomegranate peels, put into a proper vessel. After having stirred them well together with a wooden spatola for some time, place them in the sunshine in summer, or within the warmth of the fire if in winter, for three or four days, stirring the mixture as often add a half pound of green vitriol powdered, and let the mixture remain four or five days more. stirring it frequently, and then add further four ounces gum Arabic, dissolved in a quart of 7 ferent properties, and they differ according as hoiling water, and after giving the ink some they are more or less ripe. The outer cover-time to settle, strain it off from the dregs, and

> If the ink be desired to shine more, the proportion of pomegranate peel must be increased: and in the country, where the logwood cannot be so easily obtained, a pound of ripe privet

In order to secure this ink from growing and it may be remarked, that no insect eats the mouldy, 4 pint or more, of spirit of wine may beautiful leaves of this tree, nor is the earth-be added; but to prevent its containing any worm found near it. An infusion of the shells acid, which may injure the ink, a little salt of thrown out destroys the worms on which it falls, tartar or pearl ashes, should be added previous-This liquor destroys even the tape-worm. The ly, and the spirit poured off from it, which leaves have the same property. A brown dye will render it innocent with regard to the color

Great Pigs in New York .- The Goshen (N.

Mr. Levi Steele, of or near Albany, killed a pig a few days ago, which was 229 days old, and which weighed, when dressed, just 229 lbs. making one pound for each day of its age.

John Hutton and Thomas Jeremiah, butchers trying them with a pin. Put them in a strong of the city of New York, recently purchased 8 pigs, 7 months old, weighing 1,599 lbs. These pigs were raised in New Windsor. Orange county, and were bought of William Houstan. They were a mixture of the grass breed and the common breed of the country.

### HOTCHKISSE'S Improved Straw Cutter.

LORING BROWN.

Also, one Machine for sale at THOMAS IR-

PRINTED EVERY FRIDAY AT 4\$ PER ANN. FOR JOHN S. SKINNER, EDITOR-BY JOSEPH ROBINSON.

# AMERICAN FARMER.

# RURAL ECONOMY, INTERNAL IMPROVEMENTS, MEWS, PRICES CURRETTE.

" O fortunates nimium sua si bona norint
" Agricolas." . . . . Ving.

Vol. 1.

# BALTIMORE, FRIDAY, DECEMBER 31, 1819.

Num. 40.

## AGRICULTURAL.

On the comparative utility of

# OXEN AND HORSES.

FOR AGRICULTURAL PURPOSES.

#### No. 111.

The annexed Treatise was offered by the ingenious Columbia, to the Georgetown Agricultural Society, and took one of its premiums about six years ago.

To the Agricultural Society of Georgetown.

#### GENTLEMEN.

The following brief essay on the mode of gearing and working oxen, is off red with a temerity, I fear hardly commendable, when I reflect on having been out of the practice of using them, for several been made, had I not been apprehensive that, important as this branch of Agriculture is, it might possibl, he overlooked, in the pursuit of other ones, deened of still greater moment; and thereby the dawning country

While occasionally travelling through most parts of dexter justy used, as in the District of Maine, where not be accused of arrogating for my eastern brethren, embraces most of these desirable objects. from motives of vanity or pride, when it is considered that while our plodding pedestrian is slowly moving with a team, valued high at an hundred and fifty doioff with a set of steeds, which as many pounds would seldom purchase.

While I am persuaded, from comparisons, that my ject have justice done it from some abler hand.

I always take pleasure in ruminating on the attributes of the ox; -majesty, ambition patience and gratitude are apparent in his physiognomy;—and all not to he hurt by friction; it is there his strength these properties are found inherent in this valuable has, even to a probab. quadruped :- Happy would it be for these much abus-

I have, when obliged to exercise a momentary rigor, together with other working cattle, have always apbarity towards this patient, toiling animal, richly merits the doom of ever after preparing his ground with a grubbing hoe.

In many respects proud man must look up to the beast as his superior: - man's reason is replete with the tackle sits easy and free on his team. error: but instanct, or the inference drawn by a brute, from certain sounds and motions, after having once

is indispensible in the man general of working cattle; ox carries the fore end of the yoke;—it often o curs the who would work them with ease and facility, that in inequality of strength begets such ambition should maintain a strict uniformity in his conduct to in the weaker ox, as will ruin him, by his overstrainnamed, while young, to which they become familiar, him) and remedy it, as has been just pointed out. by the time they are ready for the yoke. Any thing The annexed Treatise was offered by the ingenious appropriate to their color, shape, &c. is proper; author, a resident of Alexandria, in the District of such as bright broad, line, spark, back, star, turk, golden, Sc.

The buffaloe breed of cattle, or those without horns, will not answer well for working, as horns are necessary in backing a cart, and in carrying it down hill Oxen should never be changed in the yoke, after having been broke; - the near, and off ox should always remain as such :- By changing them, they become confused, and all the henefit of their trution is lost.

A temporary change, however, can be made in one nstance, to advantage: this is when they hang off years, and on being guided by no data but a frail and from each other, as they are apt to do in bad travel-fugitive memory: Indeed the attempt would not have ling, when they get freezed: they then cut each others' feet with their shoes :- shifting them, puts this out of their head, for that time

There are however, several ways in which oxen may be geared for work: they are willing to earn their of a science, to which I have been a partial votary, bread any way: they have been tried, and found to be suffered to remain stationary in this part of our pull, by a poke on the neck;—by a shaft, lashed bread any way: they have been tried, and found to across the forehead, and traces to its ends ;-by traces fastened to the horns ;-by harness, like horses ;-and the United States, I have found, by observation, that they will pull by the tail. From these various modes, in no section were oxen so generally, nor of course so it is the husbandman's duty first, to study the nature, I was myself brought up. In this position, I shall his own convenience; and then select that which that should also be done away. Oxen may, and ought

There are but two of these modes mentioned, that cess. These are the yoke and the harness From the lars ;-the Virginia wagoner proudly mounted, trots former being in general, not to say universal use, the inference is a natural one, that some inconvenience must attend the latter. The form of the ox is one objection to harness; -his belly is so much wider practice has been according to the most approved than his shoulders, it is embraced so hard by the iron modes extant; I am equally convinced that my inter-traces as to impede his wind, as well as to be injured mission therefrom, will subject my lettle treatise to by galling. The yoke, on the other hand, being of many errors. I therefore hope to see the same sub-hard wood, appears to be an instrument that would gall, but I never knew any injury done by it: the neck of the bullock seems by nature, fitted for the voke : the skin, naturally thick, soon becomes so callous as

In point of economy, there is a wide disparity beed drudges, could as much be always said of their tween the harness and voke: the expense of the forlord and master! I confess my reflections relative to mer to that of the latter, for eight years' wear, would this treatment so novel, would be fully appreciated: these slaves, which have "borne the heat and bur- be as ten to one; and the time of gearing and ungearden of the day" with me, have operated much in ing, is as three to one. In other words; a yoke will their favor, as a shield against every species of se-cost only five dollars, which will average eight years' wear, and can be put to oxen in two minutes.

A yoke which is properly made for oxen of equal near, or off ox; but the bows being sometimes untrue, obedience :-he fell, and drew them along with him so: An ox can feel as sensibly as a man, the pains o into painful servitude. He who could include in bar-tight or unfitting accourrements; but not being so fluently gifted, and being too noble and patient to or penknife in the foot of his bont) to be vigilant that times profuse with it.

best drilled soldier mistake, for the instant, advance (casy to them, and is soon remedied, by putting the arms for recover arms, but never saw a well trained stable of the yoke nearest to the end of the strong ox. ox m. take gee for haw, or haw for gee: -hence sysem It does not however always follow that the stronger wards them They must have names:—therefore mg himself for an even yoke. The driver should be calves intended to be raised for working, should be attentive to this circumstance, (if it ever occurs with attentive to this circumstance, (if it ever occurs with

It is unnace-sary, in voking well tutored oxen, to lug the voke round the yard after them, as they are easily called to that I have often called the ox I wanted from a drove of all sorts of cattle. Stand the yoke on one end; - take out the off ox's bow; --steady the yoke with the left hand, and with the right, hold up the bow towards the ox, and, beckoning with it, call him by name to you; slip the bow under his neck; turn the voke down upon it; enter it in the bow-holes. and put in the bow-pin; theo take out the other bow, and lifting up the near end of the voke with the left hand; with the bow in the right, call the near ox also by name, who will come and "bow his neck to the yoke," and is harnessed the same as his companion.

An ox goad to drive with, is made of hickory, or any tough wood, 3½ to 4½ feet long; as may suit the whim of the driver; -about the size of a man's finger, with a prick or sharp point of iron in the end, projecting not more than a quarter of an inch. This is more cheap and simple, and has been found to answer much better than a whip, or a long green withe: The ludicrous practice of using the latter, and of having a driver on both sides of the team, to keep them straight, or of fastening a rope to the horn of the near ox, for the same purpose, cannot be too soon explodand convenience of the ox :- Secondly, economy, and ed. Riding on oxen, is a shameful, lazy practice, to be so taught, that by speaking to them, and making a kind of beckoning motion with the goad, they can be adopted with any degree of satisfaction or suc-will "come to," or in other words, turn to the left, without the trouble of an assistant on the off side, or a rope to pull them round.

I would have one thing remembered in driving oxen: (which also applies to every species of servants) I mean the impolitic habit of a uniform harsh department, and of keeping the goad constantly going over them: it is a needless tax upon the lungs and sinews; the oxen will not do so much work for it; and what is worse, they become so callous, from this perpetual rough discipline, that they cannot easily be brought to any extra exertion when it is indeed necessary.

The benefit of a calm management has been very apparent to me, when I have been driving, in company with these pevish geniuses, and coming to a ste p hill, I would then speak sharp and determined, to my team, and ply the goad pretty freely; (if necessary) every one of them would pull as for his ife; and the hill would be quickly surmounted: while the driver who has always been speaking harshly, and always been nlying his goad, could not here make use of any new argument to stimulate his cattle to the exigence of had them turn towards me an honest, rebuking face, size and strength, will have no particular end for the the moment: the consequence was, he would often which has never failed to have its full effect. They near, or off ox; but the hows being sometimes untrue, have to receive assistance from a team no stronger have to receive assistance from a team no stronger wall fit to the neck better one particular way: -this, than his own. Drivers should acquaint themselves peared to me, the innocent victims of man's first dis- the nice teemster will observe and always put them with the burthen of their oxen, and never load them beyond it;—it discourages and burts them.

Because they are very strong, many unthinking fluently gifted, and being too noble and patient to task-masters appear to shelieve them omnipotent brink on that account, from his task; it particularly When they are properly taken care of, they are not choves every driver, (who cannot all day wear a key apt to be sparing of their strength; - they are some-

I have often been beset with difficulties, when at When oxen are unequally matched, as to strength, work alone in the wood, with a yoke or two of oxen, ne strongest is apt to carry his end of the yoke search lave then thought I could perceive traits of reclearned their purport, is infallible. I have seen the veral inches before the other; this makes the yoke un-son in them; for in proportion to my anxiety and ex-

rtions to extricate myself, have I seen theirs spoutaneously to increase.

That all cattle should be sheltered in cold and wet weather, is obvious to every person; but to those strength depend upon it.

and hay. No doubt however, but this is good econo my in every climate in the United States; as the farduce, in a short time, by stacking out, as would build

a baro. Our old fashioned barns, I believe, are not susceptible of much improvement. Those which cattle are wintered in, are built at a small distance from the bouse, on a rising ground, with a yard open to, and descending a little towards the south, if such a spot be near; it being thereby warmer, kept cleaner, and the wash enriches the adjacent ground. The bard has two large doors, opposite each other, for the convenience of driving in loads of grain and hay :- on one, or both sides of this thorough fare, is a stall for cattle, say ten fe t wide, and six and a half high, and running the whole width of the barn: so that if a barn were 4) feet long the stalls would take up tea feet on each end, and twenty would, of course, be the width of the thorough fare; which latter, being also used as the threshing floor, is floored with two incl-plank, well joined. The partition between this and the stalls is only three feet high, for the convenience of feeding the cattle, whose crib joins the partition, and is true made; -a riece of timber, the length of the stall, about 4 inches thick by 8 wide, is laid down on edge, parallel with the partition, and 23 feet from it : this makes a crib on the floor, being the most natural one that cattle can have to feed at. It is kept perfectly clean, as the stall floors have a gradual des cent of about three inches. Immediately over this timber, is another smaller one of the same length, fixed to the joists above; in both of these timbers, from end to end, holes are bored, at three feet distance, and smooth round stantions, or studs, 3 inches in diameter, are fixed therein; round each of these stantions is benta sand lockery hank, or hoop, sufficiently loose to play up and down thereon: a wooden bow, p.essu., through this hoep, embraces the neck of the ox, who is thereby kept at his post, yet still has every rational liberty: He has room to eat his food, lay down, or standat his phasure. (See drawing at the end of this essay.) These stal's have small windows, 4 feet from the floor, and at convenient distances from each other, through vinich to throw the manure. Satisfactory ex perience of the safety and economy of this mode at Lousing cattle, has made it universal in that quarter.

n tying up cattle for the night, respect should be had to mattery among them :- the strongest should be jut in first, and at the further end from the door, and s) on, according as they hold dominion over each other, the og the cons, y arlings, &c. next the door, in

case of civil war among them.

It is interesting, when "the curiew tolls the knell parting day, 'and the farmer's boy opens his stall door, and gives a red of invitation to his leading tharations, to see them forming a line of march, entering the door, and taking their places precisely according to rack, without martial music, word of command, or confusion But I big pardon for this long digression, rous ling a subject too, which is doubtless familiar to e er, farmer.

The thorough-bred teemster never suffers himself to parake of his repast, before his oxen have began theirs. To y require little else, in winter, but good wholesome hay and water; but when sufficient time count will be allowed them to line on hav, then corn so the ear, is the best thing that can be given them. Pumpkins are also very grateful to then, and, being remarkably prolifie, may be raised with little trouble. in winter, cattle are tied up, and fed at about sunset; fed again at 8 or 9 o'clock ;-again, at day light; then, at surrise, they are ready for the labors of the day. This mode of feeding is considered preferable, being fresher, in small uantities, eaten more freely, and less finishe to get under their feet, and be wasted.

Carts, being cheaper than wagons, and handier his belly, and carried up to a windlass, which being about the ordinary business of a farm, are therefore to strained, he is gently raised, so that his feet touch be desired. Different kinds of bodies may be attach-ed, occasionally, to one pair of wheels; an open one one are then drawn out, and fastened upon small posts, weather, is bothing to the person to the person between the work, it is indispensable that work, it is indispensable the health and for hay, sheaves, &c. and a close one for fruit and velocities are put on without further trouble. getables. The naked whoels are handy to hand spars, The drawings below the necessary for a better From the severity and duration of our winters, at poles, and al kinds of long timber on. In httching a onderstanding of this essay.

The first is the representation of a cart tongue, calculated to hold as much as possible of our grain into the ring of the ox yoke, as far as a shoulder in the intehed to a yoke, as in the act of drawing. a is the tong will permit; -an iron instrument called a copse copse pin, which goes through the tongue, and by resembling the capital letter U, is put on the end of which the yoke draws. b is the copse by which the mer loses as much in quantity and quality of his pro the tongue, embracing it above and below, and the second yoke is hitched, when necessary, copse pin is inserted through the end of the tongue, Beside this is a stantion and bows by which cattle are and through the copse. This copse is for the purpose secured at their crib. a the cap, lies flat on top of of hitching the second yoke of oxen to, when neces-their neck; the end of the bow at b is something like sarv. (See drawing.)

Wherever oxen and yokes are used, chains become its place.

The most approved method is, by having a frame made inches in diameter. for the purpose, in which is a small platform, raised about a foot above the ground; the ox walks on to this platform; his head and shoulders are then confined by stantions; -wide leather bands, having one end fast at the frame above, are brought down, passed under

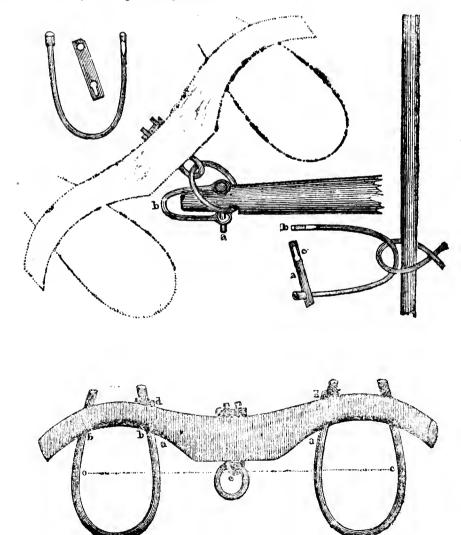
a button, and is put in the hole at c and springs into

indispensable -- four of these, each ten feet long, with Below is the model and size of a yoke, for a middling a hook in each end, or part of them with a ring in one sized pair of oxen. Whole length 3! feet, distance of end, and a hook at the other, are enough for two or bow holes, a to a, 20 inches, ditto from b to b (in the three yokes of oxen. I shall only add a few observations on the manner of eval form and c . . . . . , c being the greatest swell, and shoeing oven; for, that they need shoes, as much as where the ox's shoulders come, the staple a should be horses, especially on slippery and frozen ground, is n a direct line between, so that the strain will come evident. Many smiths cast them down upon straw, tie right, in drawing -d .... d may be flat keys, or all their feet together, and shoe them in that ignoral round pins of wood, one in each bow is sufficient; the nious posture, which strains and injures the creature stuff of which the bows are made, must be at least 15

Respectfully submitted,

By your very humble servant, EPHRAIM GILMAN:

Alexandria, Nev 12, 1812.



FOR THE AMERICAN FARMER.

PROCEEDINGS OF THE AGRICULTURAL SOCIETY OF ALBEMARLE.

Papers communicated for publication by the Correspondine Committee.

# A Notice of the Bott-Fly of Horses

The Oestrus Equinus of Linne.

No. 4.

[READ, MAY 10th, 1819.]

in horses, when in the fly state, shew's not only a posit her eggs in the mouth of the horse fly, that it succeeds whenever the underlip of the horse is found by it a little separate from the upper; some selected spot, where it affixes its eggs to the life of that animal. bair by means of a glutinous matter in which they are enveloped. In chusing a place it evidently seeks to insure shelter for the eggs from the effects of rain, which are of course known to it from its own experience. That the insect selects those parts of the horse, which are in some degree sheltered from the rain, and yet exposed to the sun, and not those, at which the horse is most apt to bite in order to allay itching, is quite obvious. An instinctive knowledge son, in spite of the manifest absurdity involved in the supposition, that an animal so far inferior to man, should possess from nature an intelligence superior to his in a matter of so much importance. It is not probable that this fly would attract the notice of the horse so strongly, if it were not for the . peated assaults it makes, on the mouth of the animal, and its resemblance to many insects that bear other means of annovance.

Monsieur Daubenton in his anatomical description of the horse, which is to be found in the Natural History of Count de Buffon, says in treating on this subject:—"There were a great many worms in this stomach" (that of an old robust horse killed in the spring-season) "as in all the different stomachs of the other horses we opened, in number altogether more than sixty, of different descriptions. The worms were male and female, and of very different sizes. I counted as many as six hundred and sixty of them in a single stomach; -besides which there were yet many others at, or near to, the other extremity of the alimentary canals; (et outre cela il y en avoit encorplusieurs a l'anut !) -but we saw none in the intestines between. They were all obling and of different sizes. The smallest were three lines long and about one line in diameter. The length of the largest was eight lines, their breadth three lines, and their thickness two lines (a line is equal to two French millimetres. or 0 07876 of an inch English.) Some of them were of a villow line, and others, particularly the smallest of a colour inclining to red. The fore part of these stomach obliquely, and is moreover compressed by a ted from color, number of rows of the grain, and diffinsects is narrower than the hind part, which gives to sphincter muscle, as well as occupied by a duplication ferent periods of ripening. The white and the wellow body is encircled with eight or nine rings, upon which produce an effect on the stomach, and have an in-ferred. are little bristly points of considerable hardness. At their anterior extremity they have hooks (crotchets) by means of which they fasten themselves to prevent being carried away with the aliment. Indeed those which is supposed to be the cause of a very consider-

worms at the beginning of the duo denum, quite close but alum, in which he has the utmost confidences make for themselves in the walls of the intestines. That species of Oestrus which produces the Botts not the same continued substance with the cuticle, or and floating tunica villosa from the points of its bristles manifest consciousness of having derived its origin least of the same kind, having analogous uses and ad let go its hold with the hooks at the mouth. That from the horse, but a distinct remembrance of hav- vantages and equally liable to thicken and harden, to effect is produced for it, mechanically, by the styptic ing resided in the early part of its life in the body of become callous, and insensible, from similar causes that animal. The pregnant female endeavours to de. In the one case it is stretched and smooth and in the The animal, other it hangs loose and floating when fluids are preposit her eggs in the mouth of the horse. The animal, other it hangs loose and floating when fluids are pre-knowing by experience the intention, frets, stamps, sent. This might be expected from the different cur-lengthways which it causes. Why the grub should, and moves its head up and down, to get rid of the cumstances of its forming a lining to a convex or con-suddenly take deeper hold with its books so as to importunities of the insect. Such is the shape of the cave surface, being more or less exposed to accidents, penetrate to the nuscular wall of the stomach, by abdomen from the elongation of the oviduc' in the and existing generally with or entirely without protecting liquors. When this fact is considered it is no grene, is not known. As it takes its nourishment longer matter of surprise that the stomach of man from the fluid parts of the chyme which afterwards which is often the case in a great degree when the receives, with so little injury, substances of such animal sleeps on its feet. If foiled in that attempt, the insect hovers around the budy of the horse, occa- from the ordinary attacks of the Botts, which perhaps signally durting with the swiftness of an arrow, to rarely penetrate through the valous coat during the

Monsieur Daubenton proceeds thus upon this subject, "It is pretended that these worms are produced by flies, which place them within the bowels of the horse: or at least deposit eggs there which very soon worms they say traverse the whole length of the intestines to the stomach, where however, they remain only for a certain time, after which they return to the it is believed, into a species of fly, which reproduces nexion with the horse. It cannot be doubted that period. they are fatal to a great number, since they have the power of causing ulcers in their stomachs and even The Secretary of the Agricultural ? of piercing them through It is pretended that oily substances do not destroy them as they do many other insects. But oils are recommended against the White Worms, which are pointed at the two ends, and which are sometimes more than six inches long: also against those the form of which resembles a large owl (grosse equille,) which latter are very dangerous to horses. I have never once found any of the last in those I have opened, but I have often met with long worms, and Of the plants recommended for a course of crops (in the sometimes with small flat worms very white and formed of several rings. Mercurial remedies have been proposed against those in the shape of a cone, hut have not been fully tried. This subject nevertion renders vomitting impossible in the horse from moist vegetable mould, the peculiar insertion of the gullet, which enters the There are many vari fluence generally upon the constitution, functions, and diseases of the horse? The object of this quotation tem of roots, must necessarily be a great feeder, and is to call the attention of this Society to the insect

o the Pylorus in greater number than any where else, founded on the experience of many years. He has They are ranged side by side: The fore part of them always been able to give instantaneous relief to his is always buried in the little cavities which they horses, when suffering from the grubs, by drenching with a solution of alum in common water. No doubt They are also dispersed over the whole surface of the the medicine acts by its styptic quality, which constomach, and many different spots on the villous coat, tracts the rings of which the body of the worm is comwhich bear the appearance of having been grawed or posed, and disengages the bristles growing upon them destroyed by them, may often be seen. Indeed it has from the barbed hold they have in the rugge of the been observed that they often make holes in the villous membrane. Yet he was not led to the remedy stomach and cause gangrene. To this may be well by this indication, as sure as it seems to be; but readded that the elder Monro, Professor of anatomy in ceived it from persons unacquainted with the forma-Edinburgh, for many years before 1767, demonstrated tion of the grub in that respect. It is quite probable that the membrane which lines the inside of the that the Bott may not have the power of contracting stomach and intestines in man and other animals, if its rings at all times, so as to disentangle the mose scarf skin, which covers the external of the body, is at by which it is prevented from dropping off after it has property of the alum which reduces the dimensions of the body every way, and very probably sheathes which it gives so much pain and often causes ganbecomes the chyle formed by the digestive process. out of the food taken in hy the horse, a great change in the power of the gastric juices, from general debility produced by excessive fatigue, and too long fasting may perhaps alter the nature of that nourishing liquor, or lessen the quantity so much, as to produce uneasiness, and dangerous restlessness and activity in the gruh. There can be no doubt that these insects, at a certain stage of their growth, let go their hold of hatch, and become the worms in question. These their own accord, and abandon themselves to the course of the aliments, by which they are carried without the body of the horse, with the focal matters. Strong cathartics given after the solution of extremity. They have been seen to come forth in the alum, would of course cause an earlier departure and of this enemy is attributed to the horse, without real months of May and June, to be speedily transformed, might greatly lessen the number of the flies; as the it is believed, into a species of fly, which reproduces grubs so expelled, might not be sufficiently mature them anew. This is not the place to give the history to go through the double transformation which sucof these worms and flies any further than their con-ceeds their arrival in the open air at the natural

THOMAS M, RANDOLPHA

Society of Albemarle.

FROM THE ALBANY ARGUS.

# Treatise on Agriculture.

SECTION IX -Continued.

preceding section ) and their culture.

VIII. Of Indian Corn.

This is a native of South America, and was introtheless is very interesting. Besides the stomach and duced into Europe in the 16th century, where it is intestines of the horse are formed in a manner so sin-known by the names of wheat of Turkey, Indian gular as to deserve the attention of Physicians, as wheat, Spanish wheat, &c. (1) Its productiveness well as Naturalists. Digestion must be performed by and other good qualities, have brought it into general it in a manner quite peculiar, for the stomach is very use, for it is now found in every part of the globe, small in comparison with the bulk of the animal, while where its cultivation is not forbidden, by the coldness on the contrary the colon has very large pouches in of the climate. With proper culture, it grows well it which seem to serve in some measure instead of in a great variety of soils; but prefers old and rich the stomach. It is already known that the conforma-pasture grounds, artificial meadows, warm loams and

insects is narrower than the hind part, which gives to sphincter muscle, as well as occupied by a duplication ferent periods of ripening. The white and the yeilow their figure 12 appearance of a small cone. Their in one part. The great extent of the colon must also (of 8 and 12 rows) are the varieties generally pre-

(1) This the Zea of the hotanists. In what does short bristles which project from their hodies, in cir able annual loss in horses, all over the world. No this differ from the Zea or Seaman of the ancien's? cles, on the edges of the rings, contribute to keep new information on the subject is pretended to be The favorite dish of the Romans was Alica and "Alithem in their places, for they have a direction back- obtained, nor even is a intended to suggest any new case to zea, quam semeu aspellavimus." Plin. 19 L. wards from the head. We have always found these remedy. The writer rejects in his own practice all Nat. Hist. draw much of its supplies from the earth; whence arises the rule, that it ought not immediately to follow, or to precede, any other granineal crop; and that it he not found oftener than once in six years in the same field.

The seed should be taken from the finest ears or the last year's crop, and from those growing on stems which have had the largest number of ears. After steeping it twenty four hours in a strong solution of

nitre, it should be planted (2)

There is some difference of practice, without any great difference of result, in the modes of planting. Furrrows are sometimes made at the distance of three or four feet from each other, and in one direction only, and in these the seed is placed, fourteen or sixteen inches apart. At other times, the field is furrowed both ways, and the seeds dropped and co vered at the points of intersection; while again, two rows of beans or potatoes, or mangle wurzel, are interposed between as many rows of corn. This last practice is most comformable to theory, but the other methods generally prevail, and punikins, beanor turnips form the under crops.

Whatever method be adapted, the time of planting is that at which the earth first acquires the warmth necessary to vegetation, and which is sufficiently indicated by her spontaneous product ons. If we plant earlier, the seed is apt to rot; if later, the ripening

of the crop is hizarded.

No crop while growing, requires more attention than corn, and none better repays the labor bestowed upon it. The objects of this are two, to extirpate weeds and to keep the earth loose and open to the influences of the at no phere. As soon therefore as weeds begin to shew themselves, the surface of the field must be well harrowed. Plastering is the next operation, and may, at the distance of a few days, be repeated with advantage. The weeds will now re-app ar, when the triangular harrow, accoming history; for the quotations with which we began mosted to the width of the intervals, must be emplified article, show, that oats were cultivated in Italy, ployed. This, drawn by a single horse, will do its many centuries before the existence of America was work expeditionally and well. The plough called the known to any European; and few are ignorant, that cult va or, with a double mould board, follows the Chili is among the hottest and dryest regions of the harrow, and is itself followed by the hand hoe, which alone can perform well the last and great operation of hilng the corn. The effect of this is to enable the grain to form new joints near the surface of the earth, whence will issue lateral roots, fitted to receive an additional quantity of aliment necessary or proper for the plant. (5) Care must however be taken to fl. tten these little mounds of earth, so as to make them hetter recipients of water.

Corn is sometimes cultivated with a view only to the forage it may yield; in which case it is generally sown broad-cast, at the rate of ten bushels to the acre, this opin on, and demonstrate, that "oats, in rota and cut green, while its saccharine qualities most abound. We are told by M. Bose, that in the volcanic soil of Vicenteri, in Italy, corn managed in this way, gives four crops in the year. As dry forage, it is a great resource in warm chimates, where natural meadows are rare, and artificial nearly unknown In the eastern parts of Virginia, it furnishes the principal stock of horse fodder; and in our northern lati tudes, is a useful supplement to clover, timothy and

red top hav.

The produce of corn is much affected by weather If this he hot and dry, the leaves, stems and ears are all dimenutive; if wet, the leaves and stems are abundant, but the ears deficient and often diseased; if both wet and cold, no ears are produced; and on the other hand, if moist and warm, (more particularly when the grain is flowering) the crop is exc llent. To produce this combination is not within the reach of human industry. All therefore, that agricultural toresight can effect, is to interpose a few days between the planting of different parts of the crop, so principal part of our cabbage crop. as to multiply the chances of favorable weather.

IX. Of Beans.

Of these, there are several species, which, to occupiers of clay soils, are of the utmost importance, because in them, the beans thrive best, while at the sometime, they greatly ameliorate and fit them for wheat and out crops. The species most recommended, are the Heligoland, or small horse bean of England, and the white bean. The former, is vicorous, hardy and productive, and an excellent food frr cattle; the latter is more delicate and nutritive, and much employed as a food for man. (4)

If beans are made to commence a course of crops, as they may very properly do, they ought to receive the dung of the year, which, as in the case of potatoes, should be spread over the surface of the field ind plaughed in without loss of time. The moment ne spring frosts are over, the planting should take place-in rows or in hills (as described in the last rticle for cornj; and throughout the whole course f vegetation, the crop must be kept free from weeds, condition that it well observed, will secure an thundant produce. (5)

Y Of Oats.

Oats is, among grains, what the ass is among aninals-very little respected, but very extensively employed. The lews evenu of Ovid, and the steriles dominantur avenu of Vargd, show the degrees, both of use and abuse, with which it was regarded by the Romans In modern times, a great literary authority describes it, as food for Scotch men and English horses It is probably this state of degradation among poets and ph losophers, that determined the ontainsts of Europe, to give to America, the honor of having produced it Mr. Adanson found it growing spontaneously in Juan Fernandez; whence the scavaos wisely concluded, that it must be a native of Chile! But in this conclusion, they appear to have globe, and that oats perish in dry and hot climates.

Of the many different species, or varieties of this grain, the black and the white, are those which hest deserve cultivation; because most hardy and productive. In the poorest soil and with the smallest possible labor, they give something, but because this lo not give much, (in circumstances under which other grams would give nothing,) we infer, that the rain itself is a poor one, and, at the same time, a great exhauster of the soil. We owe to Mr Dranus a series of experiments and calculations, which overturn " tion, under proper culture and in good soil, are not less profitable than wheat or rye; that after beans "cabbages or potatoes, it yields great crops, and " that it exhausts less than other grains, which occupy the soil a greater length of time" As a proctor of clover or other grass seeds, (and with ome of these should always be sown,) it is secononly to barley.

XI Of Cabbages.

These have been long known among us as a garder vegetable, but are rarely met with p field culture a fact the more extraordinary, as in England, they have been very extensively and profitably employed in that way for more than half a century.

The species most recommended, are the early Sal. bury and York, the great Scotch, the Drumhead, the Cavalier and the green Savoy. Mr Cobbet has remarked, with much good sense, that the species best for man, are also best for cattle, and that on this ground, the last of those mentioned, should form the

The seed of early cabbages, (as the York and the Salisbury) should be sown in hot beds, about the mic-

dle of February; and that of winter and fall cabbages, in the open field, about the 15th of May. The bed selected for the latter, should be of gond soil and well ventilated; that is, exposed on all sides to the influences of the air, and without artificial shelter. When the plants rise, they should be sprinkled with unleached ashes, or gypsum, and if attacked by the fly, may be slightly and temporarily covered with branches of elder. If the weather be uncommonly dry, a little watering may be proper, but much of this should be avoided, because plants, like animals, may become topers, and will then drink more than will be useful to them

The transplanting of early cabbages, should not be delated beyond the 12th of May, nor that of the late kinds beyond the 1st of June. An acre of ground

will require about six thousand plants

The preparation of the soil, for this crop, is exactly that described for potatoes, and which, there fore, need not be repeated here. When the manuring, ploughing and harrowing are finished, strike your furrows, from east to west, four feet apart: place your plants in these, twenty inches from each other, and do not forget so to press the earth, as to hring it in contact with every part of the roots

The advantage of this crop, will be best seen, by contrasting it with another; hay for example: If we get a ton of timothy, per acre, we think we do well and are satisfied; yet, if this acre had been well worked and manured and planted in cabbage it would, according to Mr Young, have given you more than thirty times the weight of the hay. Why not then prefer the cabbages to he hay? Our cattle, it may be said, will not like them so well what the same author says on this head: " Young " cattle go through the winter well on cabbages; ewes " and lambs thrive on them; fatting oxen improve "faster on them, than on any other food, and never "fall oit, as they sometimes do, on turn ps; and "mileh coas do better on cabbages six to one, than on hay, &c." But he d fficulty of preserving them through the winter, may be great? Not half as great as that of preserving potatoes; for a frost, that will convert these into dirty water, will do cabbages no harm, and may ev n do them good. Mr. Cohbett preserved them through a Long Island winter, and had them sound and fresh in the month of May, and by a method equality cheap and expeditious; requiring only a plough, a few leaves, straw or brush, and some shovels full of earth: "and here," says he, they were at all times ready; for to this land, I could have gone at any time, and have brought 'away (if the quantity had been large) a wagon · load to ten minutes,"

XII Of Buckwheat.

This excellent grain is a native of Asia, whence was carried to Africa, and thence, by the Moors, Europe. In France, it yet retains the name of Zarrazin.

The species of it in cultivation are two-the comson and the Tartorean, (Polygonum Tartaricum of inneus). This last species, is highly extolled by professor Pallas and others. It ripens earlier, and produces more than the common species; but, on h- other hand, it shells more easily and has in it an opleasant degree of bitterness.

Cattle, hogs and poultry are particularly fond of his grain, and no food fattens them more promptly.

Being entirely destitute of gluton, (the animo vegetable part of wheat) it is not convertible into read; but made into batter and baked into cakes, t forms a very tolerable substitute. Another great dvantage of buckwheat is, that, with a small degree of labor, it thrives well in the poorest sand or gravet: and that in dry clays as in those which are only joist, it gives a good crop, and never fails to leave them loose, friable and clean. To the clay-land farmer, this property is invaluable; and to make the most of it, he should remem er, that this labor sa-(4) Pythagoras, forbade his disciples the use of ving grain, ought to have more of attention and li-(3) Bonnet was the first to me e this observa-beans—whence we may conclude that the Greeks berality than is generally given to it; for if, under the cultivated only the horse bean, or bean of the the hard treatment, and in the by-places where it is now cyltivated, it yields much and works these im-(5) In a favorable season, under good manage-portant effects on the soil, how greatly would its usefulness be increased, were it made to follow peas.

<sup>(2)</sup> See in Judge Peters' Notices to young farmers, the ffect of this solution on corn creps.

of it, we refer him to the memoir of M. V rennes marshes de Fenilles, who has proved, that the crop is increased 1-13teenth merely by hilling.

ment, the white bean gives thirty for one.

on a large scale.

We have already spoken of it as a manure, and we take this occasion to quote, from a late editor of the Theatre D'Agriculture of O. Serres, the follow ing passage; "We cannot too much recommended after our old consumt practice, the employment of this precious plant, as a manure. It is certainly the most economical and convenient the farmer can employ A small quantity of seed, costing very little, sows a large surface and gives a great crop. When that the great Vilegator Swamp, and other marshes, in flower. first roll and then plough it in. Its shade while growing destroys all weeds, and itself when buried, is soon converted into terrean "

The experiments of M. Vanequelin shew, that of one hundred parts of buckwheat, fifty are earbonate and sulphate of potash and carbonate of lime.

sinc: the means have been discovered or preventing it, we may well rest s t shed with this.

In the year 1787, Mr. Voong sowed fourteen beds. with this wheat without washing, and this had 377 Lower Rhine. smut hars; that washed in clean water, had 525, that in 1 me water, had 4; that in 1 e of wood ash-terram an sea, in about +3 degrees north, and pro- for the present, be discontinued with the most earnest steeped in arsenic 24 hours, had five.

ner will no doubt answer the same purpose

the li-water, and arsenic might be used together .-Pittsf.eld Sun

#### FROM THE NATIONAL ANTELLIGENCER.

## On the Grape Vine, with its wines, brandies salt, and dried fruits. No. VII.

The maze region of France extends from the Mediterranean coast nearly to the Loire, including Poicton, and the country south of a line from thence to Nancy. The wine country of Frince extends from the Mediterranean to the north of that line, since profitable vineyards are found in Champ gne, Maine, Orleansis, and the central part of Lorraine, where the maize is not cultivated as a crop.

By parity of reason, the wine region of the United States must be considered as certainly to extend, with equal profit, from the Gul" of Mexico to those parts of the United States where the maize or Indian corn; is to be considered as a sure crop, never defeated by prints of the various grapes, mensils, and buildings. frost -In a clear well drained, and dry state of the country, this must be expected to the latitude of 40 degrees, and even further north

The recent crop of wine at Vevay, on the Ohio, is found to amount to about for v-two thousand bottles,

equal in size to those of the imported Claret, Vin de Grave, and Sauterne This is a furth r proof or extremity of the vine district of the United States

-We cannot doubt, in opposition to such facts. A sample of North American wine has been received by Richard Peters. E. q. Pr. sident, and Dr. James Mease, Vice President, of the excellent Agracultural

beans, cabbages, or potatues, in regular rotation, and and was produced and made in that vicinity, being and is ely continued in a new edition by his son, Mr. acarly in latitude 36 degrees north. It is presumed to be of the wild Scuppernong grape of that vieinity, which is white. The wine was amber colored, pleasant, sweet rather then dry, quick in its effects on book stores, the stomach and head, and otherwise. This new Besides the vidence, from a vicinity about eighty miles due Plymouth is situated.

vineyard near Harmony, in Butler county, in Penn-sylvania, about twenty-five miles westward of Pitts- agriculture, as one of the surest remedies for the mo-Smut-The cause of smut in wheat has been pro- minutes, and in a country yet very imperfectly clear- States for the production of the grape vine, and the ductive of much investigation and speculation; but ed of its forests, and drained in its swamps and fabrication of wines, and wine brandies, with the to the pleasures of the table on the counties of Penn-opening of this subject has been respectfully subwith the same wheat s ed, as black with smut, he sylvania, around the head of the Ohio, and will even mitted, in these six papers to the public considerasays, as he ever saw any. The first bed was sown reward men of care and skill with a wine like those of tion, and may at a suitable time, be again resumed;

es, had 31; that in arsenic, had 28. Again—that ceeds on the whole cast side of that kingdom to the recommendation, that a number of our fellow citizens steeped in 1 me water four hours, had 12; that in northern extremity of champagne, in latitude 49 de- who have, or are near to vineyards, would favor the arsence four hours, had one. And again that which grees, it covers a country of about sixteen degrees, public with accounts of their situations, commence-was steeped in ie as before mentioned, 12 hours, If we consider our vine region as beginning at least ment, management and success, in the preparation had one—and that with was steeped in the same at the end of the 39th degree, at this time, and exlof wine. Experience, highly useful in all cases, is of
kind of he 24 hours had none; that also which was tending south sixteen degrees, it will carry us to the
moral necessity in matters of novelty and moment. steeped 24 hours in time water, had none; that latitude 53 degrees, at which line our climate, corresponding with the Mediterranean coast of France, Thus it appears certainly that steeping the seed may be held to commence. It is therefore of the wheat twenty four hours in li will effectually pre-utmost importance that there exists a very precious vent smut. Let the he be made pretty strong, and work, most carefully prepared in France, which if the wheat be steeped tooger than this length of gives to us the natural and agricultural history of this time it will not injure it, unless it be kept too warm. noble plant, which is therein emphatically declared Lime water, and salt brine, applied in the same man to rank as the second object in the agriculture of that kingdom; that is to say, next to the alinen art If steeping in arsenic a longer time should prove grains. This work is the whole of the two articles cill citial, this would also be an excellent antidote to of 'La Vigue,' or the vine: and of 'Vin,' or wine. birds; or to prevent them from picking up the seeds, I is in the tenth quarto volume of the work entitled A Complete Course of Agriculture, theoretical, prac tical, economical, medicinal, rural, and veterinary; or the Universal Lictionary of Agriculture, by a Society of Agriculture, digested in (79) and 4, by the 11 Negrier echiquite Abbe Francis Rozier a native of Lyons, revised and 12 Raisin perle ngested anew in 1801, by Chaptal, Counsellor of 13 Mornam State, and Member of the National Institute, and 14 Mesher Dussieux, and others.'

Since this work gives the most safe and excellent instructions concerning the culture of the vine, and 17 Muscadet Malvoisie the making or preparation of wines, wine brandies, cremor tartar, or the salt of wine, and dried grapes, or raisins, and since it applies, in the most particular manner, to all our vine region which is similar to the whole vine region of France, the interests of the United States imperiously demand that it should be read, translated, and published, with notes adapted to the soil, climate, and other circumstances of our country. It might be given probably in an octavo volume of 500 pages, with a few useful copperplate

In regard to the parts of the United States which he south of 33, the whole of which will do for wine and grapes, as well as the rich and flat palus, or well drained and dried bottom lands near to Bordeaux, the climate in that most southern section of our country requires, that we take a part of our instruct on from the books and people of Spain, Portugal busia is the most cordial in Spain, but the best red wine of atalona, in S; am, is more light, elegant and admired in Maurid for the use of their most expensive

Phomas P. McMahon, of Pintadelphia, contains a very useful portion of instruction on this subject. It is now in the hands of many planters, and in all our

Besides the regular agricultural books of France, Spain, Portugal, and Italy, the cyclopædias and the south of Glasgow in Barren county, of Kentucky, writing of travellers may be usefully searched for thords a further evidence of the Northern extension matter on the Vine, and much pleasure instances matter on the Vine, and much pleasing instruction of our wine grape region. It is worthy of observation, may be obtained in the opportunities of conversation with respectable foreigners, who visit our country or are near and amost around the country in which settle in it, or with intelligent travellers among our own citizens. The subject is too important to be longer Further inquiry concerning the settlement and neglected or postponed. The times require the exburg, justify the remark, that the experiment, even mentary disorders of the body politic. These conso far north as that place, in 40 degrees and 40 siderations occasioned the capacities of the United marshes, is not discouraging. It is well established preparation of the dried from and the use of the fresh that the grape will be a certain and elegant addition grapes, to present themselves with great interest. An or may be taken up by various hands, in different As the wine region of France begins on the Medi-parts of the United States. This disquisition will

A Friend to National Industry. Philadelphia, Nov. 25, 1819.

#### GRAPES OF FRANCE.

- 1 Neumier blanc 18 Petit Muscadet 2 Morilion noir 19 Bourguignon blanc
- 3 Morillon blanc lobe 4 Pineau
- 1 Bourgoignon noir
- 6 tiriset blanc
- 7 Morilion blanc, or Mau-
- rillon 8 Rochelle
- 9 Teinturier

- 13 Mornam blanc
- 1 Rochelle vert

- 27 Cloutat 28 Muscat blanc
  - 29 Muscat rouge

Auhe

20 Le Gouais

22 Game noir

23 Petit Game

24 Grand noir

25 Le Cathors

26 Chasselas Chasse-

las, dore Bar-sur

21 Gouais blanc

- 30 Raisin de Maroc
- Cornichon blanc
- 31 Corinthe blanc

## FOR THE AMERICAN FARMER.

Brandywine. (Del.) 21 Dec. 1819.

FRIEND SKINNER .- Some inquiries in the last number of the American Farmer, (38) have induced me to cast my mite into the treasury of information. Sidney makes inquiry, " What tallow crop can be substituted for oats," refering to the middle states. The practice in my n-ighbourhood, and for 20 or 30 miles north and west of this, is harley instead of oats, spring bariey; there are two kinds cultivated with good success, the two rowed, hearing simply the steadiness of the production even of the northern fixtly and Cohauita. The best amber wine of Andathe stem, and the four rowed or more properly two rows of grain on the head, one each side of six rowed with a shorter head and full long beard: the last mentioned is most generally culfamilies Our wine region in the United States may livated, having the best appearance in the field, be safely considered as beginning, on all the suitable the two rowed has a stiffer straw, and stands up Society, long established in the city and county of lands, on the Gulf of Mexico, and extending north to hetter on a rich soil—the product is much the Phil delphia. This specimen was sent to them by the 39th or 4-th degree, especially after our country. Dr. anuel L. Mitchell, or New-York. It was presented to the latter gentlemen by Col. Barton, of Plymouth, on the Roanoke river, in North Carolina, Gardner, published by the late Mr. Bernard McMahon, a week or ten days later ripening, and much

is most favorable to either, after the growth is and free from stagnant water, if prepared by

The culture is on ground that has produced corn the preceding year; the general practice is to cut up the corn close to the ground, and he setting it up in piles in shape of a sugar loat twisting a band of straw, and binding the top close-it stands till convenient time to husk. at the same time hinding the fodder up in bun dles with straw-many stack it up in piles after being hu-ked, and remove it to the cattle yard as wanted-but the better way is to bring it to the place where it is to be fed as early as possible, and stack in a way to preserve it from the weather, as it produces an abundance of fodder S1 123, but do not know the product per acre. of our correspondent C. K. are communicated. There for large cattle.

Thousands of bullocks, that are driven from the westward as well as the northward, arpurchased by the farmers that provide this kind and nothing that I could remark different from by within the comprehension of the reader, and lowes of winter food-they seldom get hav till the ap the neighbouring farms. proach of warm weather-corn fodder and straw from wheat and barley is the principal keeping is considered the most improving made of matching seed to the Harvest, which communicate to till spring, then good hav for a month before they are turned out to pasture: at this time the are thriving and very soon become fat on the

wheat by ploughing down the harley stubble, as put on for the wheat crop. soon as convenient after harvest, which imme-The manure is laid on between the two ploughprobation very much of late.

by the harrow, and carefully rolled to pulverise similar to the fingers of a cradle, to slip under greatest quantity of cream. The first is to search press down every clod, and leave a smooth each heap, and raise it on the carriage in a loose lect good cows. The kind of cows that give surface to expedite the collection of the crop, if state, not being necessary to bind it into the richest milk are those of a red or brindle tender fibrous roots, which are expanding in become green over the ground, and advantage principles. It has been observed by some that quest of that aliment so essential to a hasty ously, if it has formed a crust by hard showers that the skin of black cows is drier or less oily maturity, and which cannot with the same laci of rain, breaking this crust with the roller has than that of other cows. This may be so, bu I cannot perceive that this circumstance will aid rolling process.

days, according to the site of its growth. Some handling the grain in the heat of the day if ference in all the functions; but this is equally of our elevated Brandywine hills, of a southern very day. As waste is unavoidable 1 have inferrable from the dissimilar qualities of treese exposure and gravelly loam, ripen in 90 with found the naked cythe to be most expeditions secretions. As we cannot refer it to a princithe four or six rowed kind—the two rowed and saving in cutting, and can be done through ple which can be altered and improved, it must about 100 days on most high laying land. I has the heat of dryest part of the day without waste, grain has had as little fluctuation perhaps as out be cautious with the rake and fork; when any other crop in the price, being generally a the straw is effectually cured, it may be put tohome market, the average one dollar a bushel gether with considerable dew on it, either for perhaps fifteen years past.

From 20 to 30 bushels to the acre may be The toregoing remarks may be of some use with a continuance of Franklin's correspondence:

depends on the time of ripening-dry and cool counted a fair calculation on a soil elevated, to such far ners as are unacquainted with the writer of this article knew an instance of an lars for the rent of one of his fields containing tried with success. oleven acres, then in corn-stalks; the time was timitted from spring till harvest. (three months) with intention of taking a borlev crop off in that The owner refused so tempting an offer and sowed it himself, and lad a return of fifty hushels for each acre, or five huniveraged fifty two bushels to the acre. This

The cultivation of barley as a fallow crup. naging land, and has become equal in rotation and as profitable as any other in the course.

Barley requires one bushel and a half per diately decomposes and becomes incorporated acre, if the grain is large, or otherwise five with the soil-another cross ploughing at seed pecks may be sufficient. The two rowed spreads time brings the land into a most excellent tilth. more from the root by putting out a number of shoots, from the product of a single grain. Thin ings mostly-hut some prefer turning it in with sowing generally produces the heaviest grain, the barley stubble, which practice is gaining ap- and when turning from the green to the yellow Barley is sown as early as the ground will and cut before the green has entirely disappear- vield to the action of the lactic acid," read admit of ploughing in the spring, and many ed. As the heads turn down soon when ripe, plough their stalk ground in the fall. Much is and occasions waste in cutting if too ripe, expelacid."\* I will make a few additional remarks prepared already for sowing as early as dry cially with a scythe and cradle, which is the enough in March-some was sown last year in common mode, and by raking up into bunches February, and produced a good crop 30 bushels is loaded on the carriage by a three-pronged to the acre. The seed must be well covered wooden fork made for the purpose, the prongs methods than Galvanism, for insuring the there was no other advantage; but there are sheaves-a rake or two to follow gathering every colour, and after them the dun, the white, and other advantages as it compacts the soil about scattering head, which is readily done if the the spotted or pied. The black are universally the grain, especially in light soils; affording ground has been rolled at the time of sowing, known to give poor milk; however defficult it more immediate nutriment to the young and or, if then too wet, may be done after it has may be to account for the fact on physiological

morning or evening.

culture of bacley, and whose soil and climate the culture of corn the year previous. The may be congenial to its culture as a fallow crop -how far south it may answer I know not, but offer made to a farmer, of three hundred dot 30 or 0 miles south of this place it has been

> P. S. My absence from home made a chasm en our Hedging unavoidable, a drawing shall nocompany the next number on the plashing pro-

The Editor, in committing the above to the hands dred and fifty bushels (of the two rowed kind.) of the printer takes occasion to remark, that it That year the price was one dollar per pushel, would be well if all writers on agricultural subjects the next season I bought his crop myself at would observe the manner in which the observations The following year I was informed his crop style-and that in lispensible minuteness in his descriptions which place the matter triated of, and vewas an elevated ridge of land of a sandy loam, ry essential particular connected with it, completehim without occasion to ask any further explanations about it. It is this conversation-like plainness of style, and careful detail of all particulars hom such writings the character of practical utility. Those who undertake to describe and recommend From a grass lay turned down Indian corn, puricular modes and systems of agriculture, appear rich pasture of clover in bloom, mixed with then barley, and wheat sown after barley with the offen to write as if under the impression tout his other grasses.

I have digressed a little from the culture of mowing crop the next year, producing from one barley, to show the intention of taking off the to two tons to the acre—then pasture till frost, ded to have any particular application. They are cornstalks, as a preparative for the e rly and ef if not kept for clover seed that year, pasture thrown out for general use. It was the conformity of fectual preparation for that crop, which is with the next season of a better quality being better friend K.'s letter to our deas of the best manner of us considered the best of all preparations for filled in the bottom—the manure is generally minded us to say uses manifold, thought to be worth mentioning.

Edit. Am. Parm. minded us to say thus hastily, what we have often

#### ON THE ACCUMULATION OF CREAM.

Baltimore, Dec. 22, 1819,

MR. SKINNER.—You will please to correct the following error in my last communication. state at harvest, must be attentively observed, In the sentence next to the last, for and does " and does not yield to the action of the lactic

#### ON CREAM.

My intention is, just to mention some other One observation should never be out of re- us in giving an explanation of the difference. This crop is brought to maturity in 90 or 100 collection, that is to avoid as much as possible unless so far as it may indicate the general dif-

<sup>\*</sup> The Editor perfectly well remembers that this mistake existed in the manuscript, and not knowing the writer, he did not venture to make any alteration. -But whether known or unknown, we shall be pleased, because we are well satisfied our a ders will be.

over which art has no control.

manner in which cows are housed and attended. and afford common English cheese. kept in a house during cold and wet weather, what it is worth; for as the elementary princiwell littered and curried, and one of the same ples are formed and combined in a living manatural constitution, left shivering in the chil-chine, chemical or mechanical means can only ling rains of winter, is such as ought only to ex-take from the milk what it contains. The best ist between different species of animals. The mode then is to improve the breed and the manmany gallons of a rich quality -As cases in cream. point, I would observe that I know farmers in Virginia, who have from 20 to 50 milk cows, of An important agricultural experiment with salt which probably 15 or 18 give milk at a time. and who from this number cannot be furnished with butter enough for their own table. Fact, which, in an agricultural point of view, this country similar to this exist not only in that state, but growth of the from corruption and the also in this and all the southern states. To the bable that the use of saline manures would be found portly we see the good effects of housing cows. the most efficacious preventive. Many circumstances though even in Pennsylvania and the New already communicated to the public, tended to justify England states, they are still far from the attentions that Europeans think proper to pay by Mr. A. Robertson, at Almond, Myrehead, near Linto these useful animals. In some of the best lithgow, about 16 nules from Edinburgh. On the dairies in and near London. they not only cur-list of November 1818, Mr. Robertson sowed 28lb. of Fy and clean their cows daily, but also san, marine salt on three falls of sandy land, mixed with their stable floors, as I have been informed. We per Scotch, or about 20 bushels per linglish acre. know the vigor of the animal functions is in- The crop was reaped on the 27th of August 1819, and greased by friction of the skin, and it becomes the part salted produced at the rate of about three buin those dairy cows a necessary substitute for shels per acre more than the rest of the field. The muscular exercise. The quantity of milk produced by some of these cows I do not now refrom it, yet the injury was very inconsiderable, and member; but it is so enormous that it would perhaps would have been totally avoided, had a greater and the credited in many parts of our country.—
I imagine. Sir, you could furnish some statement of this kind, from works in your possession between the country of the salt to be sowed, and harrowed in afterwards; for he found that the wheat did not spring up so well, in the salt to be sowed, and harrowed in afterwards; for he found that the wheat did not spring up so well, in the salt to be sowed. which would set many of your subscribers consequence of its being sown in immediate contact either to doubting, or striving to improve. It with the salt, would be gratifying to see some of them appear | Crushed rock salt will answer as well as marine salt, in the Farmer.

much farinaceous, oily or saccharine matter. possible, be put to rest. Slops of Indian meal, &c. sweet clover hav, or uninjured corn blades, are among the best artieles of this kind. Food in a liquid state is better than dry provender. Hence tea made of clover hav, will produce more milk than the same quantity of dry hav .- The injured and innutritive food that is given to cows in many parts, where farming is bad, conbines with their exposure to the pelting storm, in making wilk, when the food taken into her system, has treatment of this profitable animal.

then rise while the milk is still sweet. For this purpose it would have to be not into larg subscribers, a strict criticism on what has been Tares, &c. &c. &c. &c. for sale at No. 2, then yet creek, vessels, which might ie so tightly covered as to said in favour of the more general use of oxen.-

The second circumstance which influences produce the expected result, the sweet milk -It is considered a duty which every one owes the quality as well as the quantity of milk is the might still be subject to the action of rennet, to his fellow labourers in the same vineyard, to The difference in milk produce between a cow this project, however, must be taken only for FRANKLIN.

[COMMUNICATED BY SIR JOHN SINCLAIR.]

The rust' in wheat is by far the greatest columity to growth of the fungus tribe, it seemed to me most pro-

and the quantity should be varied from 20 to 30 bushels per English aere. It would be extremely desir-The third object of attention in order to in-able that the result of any experiments tried should be crease cream is the food. This should contain communicated to the public, that the question may, if JOHN SINCLAIR. Edinburgh, 12th Oct. 1819.

\* In some districts it is called blight or milder. effects the straw, and not the kernel, as smut.

# THE FARMER.

BALTIMORE, FRIDAY, DECEMBER 31, 1819.

THE article presented in this number, on that subject, discharges our promise to collect a scanty pittance, less. How is it possible that and spread before our readers, the most striking an animal can secrete a quantity of nutritious facts and views, on the comparative utility of XEN and HORSES, in the common operabut nutriment enough to supply, in an imperfect mans of farming -Independently of the reway, the wants of a weak and emaciated body search it has occasioned, which, when we have Humanity, apart, I have often been surprised leisure we esteem a pleasure rather than labour. at seeing in the neighborhood of towns, so little the engravings it has been found necessary to sound good Roots, true to their kin s and quality, There is another mode which has occurred to year. Besides the vokes, we have had engravme, as likely to collect a greater quantity of ed an approved model of an ox cart, which

admit of the removal of the internal air by alour object is not to enforce by prejudice or

be attributed to a variety of organic structure. simple air pump, or double valved bellows .- If favoritism any particular theory or system—we this could be conveniently effected and would desire to investigate all, and to find out the best. All expose any defect which he may have discovered in the course of experience, either in the implements, or the modes of husbandry, which he sees in use, no matter how highly they may have been recommended.

The Editor tenders his sincere thanks to latter may give a few pints of sky coloured milk her of keeping cows, in order to augment in those gentlemen, (many of them personally unin a day, while the other will give perhaps as any great degree the quantity of milk or known) who have forwarded to him several addresses in pamphlet form, delivered before Agricultural Societies in different parts of the union. - An early occasion will be taken to preserve them in the columns of the Farmer. So many gentlemen of talents and practical experience in all parts of the United States, have offered to our labours the benefit of their patronage, and good wishes and communications, that we may now, as we think without estentation, and as we hope, without disappointment, consider the American Farmer a NATIONAL WORK on the AGRICULTURE OF THE UNITED STATES. To make it more worthy of this distinguished character, nothing can better contribute, than the publication of addresses delivered in different states; as they may be expected to present a view of the objects, the proficiency, the defects and the improvements of agriculture in all the various climates embraced by the whole union.

#### MACHINE FOR GRINDING CORN, COBS AND ALL.

The enquiry made at the request of a friend on the Eastern Shore of Virginia, has brought out several communications, some of which have been published in a former number, and others will be published in our next, accompanied with an engraving.

Present Prices of Country Produce in this Market. Actual sales of Wheat - Whire, \$1.8 to \$1.12-Rep., \$1.5 to \$1.7 New Corn, \$2 to 55 cts.—Old do. 37 to 60 cts.—Ryf, 56 cts.—Oats, 45 cts.—Ter-xips, 50 cts.—Hay, per ten, \$17 to \$18—Straw, SII-Ponk, per cwt. S6 50 to S7-Burren, per lb. 25 to 37 cts.—Eggs, peridoz 25 cts.—Chickens, peridoz S3 50 to S3-Tunkers, St to S1 25-Geese, 62 to 75 cts.

Virginia Tobacco, no sales this week .- Maryland Tonacco, no sales, that we have heard of, since last

No variation in the prices of North Carolina Staples.

THE LOVERS OF FLORA ARE REQUESTED TO READ THIS,

The subscriber has just received the most superb and extensive collection of

### Roots and Plants

ever imported into the United States, all warranted regard to sordid interest, as is exhibited in the have executed in illustration of the subject, and insured to flower. Lames and Gentlemen are have cost the amount of six subscriptions for a invited to call and see them - for to particularize them, would fill up the columns of a newspaper. Every person can be accommodated, as they will be sold from 4 cents to 830 each. The above will be offered for sale. cream from the same portion of milk: that is to will be presented as soon as we can find room for a few days, and if not disposed off, will be reremove the atmospherical pressure. It seems for the introduction of some observations which moved to another market, and should the subscriber not receive encouragement for the risk he has run, he This opportunity is taken to invite from our never will attempt to offer the public such a treat.

next to Mr. daruum's Hotel. J. P. CASEY

Dec. 31

# PRICES CURRENT

AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Our ejung Metasa	
ARTICLES. PER	RETAIL PRICES
BEEF, Northern mess   bbl.	
No 1	15
No 2	13 50
Bacon, lh.	16
Butter, Ferkin	18 20
Coffee, first quality,	27 28
second do.	27
Cotton,	45
Twist, No. 5, No. 6 a 10,	46 50
No. 11 a 20,	53 80
No. 20 a 30,	80 1 20
Chocolate, No. 1,	33
No. 2,	28
No. 3,	25
Candles, mould, box	
dipt,	18 19
spermaceti, - lb.	45 scarce 10 15
Officese, fillierready	60 65
Feathers, - qtl.	
Fish, cod, dry qtl. herrings, Susquehannah, bbl	
mackarel, No. 1 a 3	9 12
shad, trimmed,	7 75 7 87
Flour, superfine,	6 50 7
fine, bbl	
middlings,	4 50 5
rve.	4 a 4 25
Flaxseed, rough,   cas	k none.
cleaned, hus	
Flax, - lb.	do 12 15
Hides, dryed,	12 15 12 13
Hogs lard,	25 30
Leather, soal, Molasses, Havana, gal	
	75
New Orlcans,	1
sugar house, - gal	1
PORK, mess or 1st quality, -	
prime 2d do	16 a 17
cargo 3d do	14 a 15
Plaster ton	
ground DDI	
Rice  10.	6
Spirits, Brandy, French, 4th proof gal	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
peach, 4th proof	1 25 1 50
apple, 1st proof	1 50
Gin, Holland, 1st proof do. 4tb proof	1
do. 4th proof do. N. England	50 60
Itum, ramaica, -	1 50 2
merican, 1st proof	75
Whiskey, 1st proof	50 62 1-2
Scap, American, white, lb.	18 20
do, brown, -	9
Sugars, tlavana, white,	19
brown,	14 50 15 25 28
loaf,	20 a 25
ininh,	
	75 1
Liverpool, ground, lb.	12
TOBACCO, Virginia fat, cw	
do. middlings,	6 50
Rappahannock,	5 5 50
Kentueky	6 50 7 50
small twist, manufactured,  b.	25 37
pound do	50 75
TEAS, Bohea, ib.	63 75 a 100
Southoug,	75 a 100 75 a 150
Hyson Skin	1 25 a 150
Young Hyson,	1 75
Imperial,	80
WOOL, Merino, clean, unwashed, -	40
crossed, clean,	65
unwashed	35
common country, clean,	37
unwashed	25
skinner's,	33)

ON THE EXTERMINATION OF GARLIC

We take great pleasure in copying, at the suggesof which, it were now superfluous to say any thing -

We understand Mr. Niles has several complete files on hand-we wonder at this, since no good library is complete, without a History of the public proceedings and events of ones own country—and such a History assuredly is Niles' Register.

Editor of the American Farmer.

It is with great pleasure we give place to the following article. The editor respectfully invites communications on similar subjects, which shall always be promptly attended to; for he will be ployed in agriculture. There is no branch of industry that can become so important to the public weal, or that is more susceptible of improvement.

Method of destroying Wild Garlic or Wild Omon.

Mr. Ailes-The tumult of war having subsided, and the incidents which it furnishes no longer fileing the pages of your useful Register; perhaps you may find room or some of those sober subjects which belong to the "dull pursuits of civil ide." The first are certaily more brilliant, but the latter may be found more useful to the generality of mansind.

Agriculture, though it has not wanted panegy rists both in prose and poetry, has not obtained that and from philosphy to which its importance only in time of ploughing for the two first crops. entales it, and which I am persuaded it is well calculated to repay. Theories indeed are not wantmg. but they too frequently originate in the closet may perhaps claim your further includgence. and abound with pl ns of improvement which are either impracticable in their nature, erroneous in principle or unadapted to the condition of those to whom they are recommended. In agriculture as well as other sciences, nothing can be relied on, but the cautions, patient, and persevering efforts of well devised experiments, and if your Register should become the focus in which the scattered rays choiced by such experiments are concentrated, it may become not less useful to the farmer than it is to the politician, and while it instructs us how to preerve or amend our political institutions, it may also teach us the humble, yet not less valuable, art of improving our corn fields.

The present methods of cultivating the earth no doubt would adm't of many amendations, but be this as it may, it is certain that our present know application, if we were acquainted with the means of eradicating the numerous weeds which infest our grounds and prey, without any commensurate re-turn and often with detecterious influence, upon the mour of the husbandman. In the foremost ranks of these noxious vegetables, stands the wild onion or garlic: so well known under these appellations as to render a botanical description unnecessary This weed has, it is said, infested our fields every year since the first settlement of a colony of Swedes in the state of Delaware, who brought the seed there and sowed it to procure early pasture. It is generally supposed to be indisburtable and has widely spread itself over Maryland and the adjoining states. My first efforts to destroy this weed afforded much matter of amusement to my good na tured neighbours, one of whom roundly swore, that " it it were all burned, it would be re-produced by the ashes." Nevertheless, having observed with attention, for some time, the economy and habitudes of the plant, I fell upon the most certain means of entirely extirpating it; and what is of primary conequence to all improvements in agriculture, the process is easy of execution and unattended with any unrequited expense, even in the first instance.

The process consists, simply, in three successive fall ploughings, winter fallows, and spring crops, as

follows : The first fail ploughing to be succeeded by a crop of Indian corn : after the corn is gathered tion of a subscriber, the following remarks on the ex- the ground to be ploughed and sown with oats the termination of that othous pest, the wild onion or succeeding spring. The common weeds and stub-garlie, from Niles' Register, a work, in commendation ble which are left after the oats are gathered to be carefully ploughed down in the fall, and the ground again sown on the succeeding spring with oats and clover seed; or the clover seed may be reserved nd the ground may be appropriated after the second oats crop to a wheat or rye crop.

As the garbe is killed in this process, not by the nature of the crops, but simply by the winter frosts. any other mode of culture which would afford the ame exposure, would probably produce the same result: but I have preferred the above method, heeause the two first crops are in conformity with the usual practice, except that the ploughings are usual. happy to make the Weekly Redister a "focus ly done in the spring; although it is generally ad-to concentrate" the "rays elicited" by "well de-vised experiments" of intelligent gentlemen em too, the crops would be better from fall ploughing. It will probably be objected that two crops of oats in succession would too much exhaust the landbut experience is not in conformity with this opinion, on the contrary if the ordinary weeds which abundantly succeed the oats crop be carefully ploughed under by the usual help of a heavy chain, properly fixed to the plough-heam and swingle-tree. they will be found greatly to amiliorate the soil, and clover seed will take and grow after it surprisingly

Although I have recommended a second crop of oats, I am not sure that the plan above proposed is efficient, but perhaps it might be sufficient to plough down the first out stubble and sow with wheat, and this would differ from the usual mode of cropping

If the insertion of this communication should comport with the plan of the Register, we farmers

I am very truly yours,

THOMAS E. BOND. Bethesda - Harford county, March 7, 1816.

TO THE PUBLIC.

# HOTCHKISSE'S Improved Straw Cutter.

The subscriber purchased the patent for this useful machine about a year ago, for all the United States, south and west of New-York, since which time he has made many very important improvements on the machine, which renders them much more durable than where, and less hable to get out of order, as all the muchinery is of cast and wrought iron, and the friction on the whole of the present machine, is not more redge would be abundantly more productive in its than the friction of the single gate and knife of the former MACHINE .- The subscriber has also the pleasure to inform the public, that the Agricultural Society at Annapolis, at their meeting on the 15th of this present month, awarded a premium of twenty-five dolears, to this machine, and became purch sers of the patent right for Anne-Arundel county Col. Henry Maynadier, President of the Annapolis Agricultural society, and Maj Richar I Jones, are duly authorised to dispose of the patent right for any county, or number of counties in this state. The subscriber has letters of recomm. ndation of his machine, from some of the first Agriculturists in this state and Virginia, who have sufficiently proved them

JONATHAN S. EASTMAN, Proprietor.

Dec 31

PRINTED EVERY FRIDAY AT 15 PER ANN.

FOR JOHN S. SKINNER, EDITOR, BY JOSEPH ROBINSON,

BALTIMORE,

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# Bural Economy, internal improvements, news, prices current.

"O fortunatos nimium sua si bona norint " Agricolas." . . . . Ving.

Vol. 1.

# BALTIMORE, FRIDAY, JANUARY 7, 1820.

Num. 41.

# HORFICULTURE.

FRUIT GARDEN, FOR JANUARY.

(From the American Practical Gardener.)

General Observations.

In large kitchen gardens, espatiers for fruit trees, are generally introduced. These are hadges of fruit trees, trained up regularly to a trellis or lattice of wood work, which may either be made by driving stakes into the ground, or forming them of neat framed work ; in either case, they should be from five to six feet in height, round the borders of the compartments of the kitchen garden, where they will be both profita ble and useful. They produce fine fruit, and afford protection to the plants in the different apartments, cound which they are placed.

Treflises are also occasionally used for wall-fruit, where the branches cannot be immediately nailed thereto; also in training wall-trees, in forcing frames, five, six, seven, to eight, mne, or ten feet high.

While they are young, it will be sufficient to drive a few short stakes into the ground, to which their tions for planting espalier and wall-trees, see March and October.

Pruning Apple and Pear-trees, in Espaliers, &c.

Apple and pear-trees being of the spur-bearing kind, and their mode of bearing similar, whether in espaliers, or trained to walls or board fences, one method of pruning will answer for all these kinds. They produce fruit, upon short natural spurs from the sides and ends of the branches, and the same shoots continue to bear for many years, increasing their quantity of fruit-spurs as they advance in length; therefore, in pruning these trees, the branches and shoots are not to be shortened, but trained horizontally to the espalier, &c. until they have reached the full extent designed, excepting irregular and superfluous shoots, and such suckers, as spring up from the shoots which have been pruned, all which must be cut away, carefully preserving ali the natural fruit-spurs; then train in all proper branches and shoots, from four to five inches asunder, without shortening them. The branches of these trees with, after the third year of their training, form short one and two year old branches, but also on the seve spurs, from halt an inch, to one or two nches in length, ral years' branches, generally upon small spurs rising and from these the fruit is to be produced. But if all along the sides; and in each winter pruning, if more lateral shoots are required, then it may be pro- will be requisite to cut out any decayed, or irregular per to cut off a fruit bearing spur, after which prun-branches, and after reta oing a supply of the last suming, suckers will arise therefrom, one or more of which mer's shoots, prime out the rest. may be trained in the place, where it is wanted.

at any time during the winter months, but the latter another, but all pruned to a regular order, so that the end of February is a preferable time, in the middle main bearers, may stand six or eight inches distant at states, and the heginning of March, in the eastern the extremities, and generally keep the middle holstates. Cherries may be pruned at any time, when low. the winter is mild. In the southern states this month will answer very well, for pruning almost all sorts of regular, the general branches should be pruned to fruit trees.

## Cherries and Plumbs.

When the weather is mild, plums and cherries, raised against walls or espaliers, may be pruned. As they are also of the spur-bearing kind, they may be treat ed as directed for apples and pears, in No. 2, which

As it was observed in No. 2, that shortening the of the stone fruit kinds.

branches of apple, pear, pinn, and cherry trees, was not aiways proper, however, in some particular cases, it may be done, as for example:

When the trees for walfs and espaliers, are one year old, from the budding or grafting, which ought to have been performed as near the ground as possible. it will be proper to shorten them near the insertion of the bud or graft, which is called heading down the trees, in order to force out lateral branches: but this should not be done till February or March, cutting them down to three or four eyes, which will produce fateral shoots near the head of the stock, after this, the branches are to be trained, as before directed, taking care to procure branches, where they may be necessary, by a proper pruning. All the young shoots of the last summer's growth, besides what may be sufficient to train, as before mentioned, must be cut off close to the place, from whence they arise, leaving none but fruit spurs.

#### Peaches, Nectarines and Apricots.

As these produce their fruit principally on the young shoots of the former summer, the fruit blossoms come directly from the eyes of the shoots, a full supply, &c. and are formed according to taste, from four, therefore, of these must be reserved annually, in every part, to train in for bearing; besides these, preserve It the trellis is to be of framed work, it ought not also a proportion of the fruit-spurs on the two and to be made till the second or third year after planting, three years branches; all such spurs as are strong, and stand in suitable places, should be preserved, especially where they do not interfere with the yearlbranches should be fastened, in a horizontal position, ing shoots. As the general branches and bearing in order to train them for the espaher. For directions are to be trained to the wall or espaher, horizontal position, and the spaher is the spaher in the spaher is the spaher in the spaher is the spaher in the spaher is the spaher in the spaher is the spaher in the spaher is the spaher in the spaher is the spaher in the spaher is the spaher in the spaher is the spaher in the spaher is the spaher in the spaher is the spaher in the spaher in the spaher is the spaher in the spaher in the spaher in the spaher is the spaher in the spaher in the spaher is the spaher in t zontally, about four or five inches distance, all superabundant shoots must be pruned out annually, always cutting off the weakly and decayed shoots.

Before pruning these trees, it would be proper to unbend all the young shoots, which were nailed up last summer, and also some of the larger branches, by which means they may be better examined, and the

pruning performed more correctly.

In shortening the shoots, you should cut them to an ensumg season; these eyes being easily distinguisha- flowering shrubs, dwarf fruit trees, esculents, &c. ble from the fruit or blossom buds, by their longer, turged.

When one tree is pruned, bind it immediately, close to the trellis or wall, laying the branches horizontally, perfectly straight and parallel to each other, at the distance of four or five inches.

#### Gooseberry and Currant Bushes.

Gooseberry and current bushes, bear not only on the

Let the gooseherries, be always kept thin of branch Apple and pear-trees being hardy, may be pruned es, and none of them suffered to grow across one

> Current bushes should likewise he kept thin and about six or eight inches asunder, taking out all super-abundant, irregular and cross branches, as well as old decayed shoots. See further in October.

Protecting the roots of new'y transplanted Trees.

The new planted fruit trees, should be protected

Forcing early Strawberries.

About the latter end of this month, begin to make a hot-bed to raise a few early strawberries, those which are planted now therein, will produce fruit to gather in March, or April.

But a tan-bark hot-bed made in a bark pit, defended with a proper frame and glasses, would generally be more successful in producing early fruit

The strawberry plants should be potted in September, as there directed.

If planted in a hot-bed, let them have air at all opportumes possible, refresh them occasionally with water, and treat them as directed for cucumbers, &c.

Where there is the convenience of the forcing house, &c. carly strawborries may be raised in great perfecttion, with but little trouble.

#### Forcing fruit trees for early Fruit.

Where you have the advantage of forcing houses, hot-walls, &c. fornished with front trees for producing early fruit, as cherries, apricots, peaches, &c. prepare for it now, by shutting the glasses close, and about the middle of the month make the fire, and where there is, in the forcing department, a pit, in which to make a hot bed of tanner's bark, or hot borse dung, make the hot-hed first, and in a fortnight's time kindle the fire.

#### Forcing Frames.

A forcing frame is a kind of glass case, or light building, fronted with glass frames, in which to force flowers and fruits to early perfection, as also to preserve various kinds of exotic plants, during winter, in our climate. The erection of such a frame, should be fixed, fully to the exposure of a south sun; the length, ten feet, (or any other length) the width, from six to fifteen, and from five to ten feet high, having an upright back of wood, or brick, and a front with upright glass work, six feet high, from the top of which a glass roof is carried, in a sloping direction to the top of the back or main wall, designed for eye, that is likely to produce a shoot for a leader, the the reception of various sorts of flower plants, small

These frames may be employed to advantage in the flattish form, the others being roundish, swelling, and vicinity of large towns, for forcing carly plants for market, and by them, various kinds of esculents, &c. may be obtained in February, M. rch and April, which in the open ground, would not be matured till May, June or July.

In these forcing frames may be introduced pots of strawberries, kidney beans, roses, honeysuckles, jasamines, and other flowering shrubs; carnations, wall flowers, stock-gilliflowers, &c. &c.; also curious annuals, and other rare plants. You may likewise have several sorts of dwarf fruit trees, as May duke therries, peaches, nectarines, figs, apricots, &c.

The following is an explanation, under separate heads, of the general construction of each sort of these frames, according to the materials used, viz: 1, Dung heat. 2, Bark bed heat. 3, Fire-heat.

1 Dung heat - This is not only the most simple. and cheap kind of forcing frame, in its construction, but also considerably the easiest to manage in works ing, with respect to obtaining a supply of heat, s it may be forced by repeated tinings of hot stable dung, against the back and end. This frame is formed with an upright back and ends, of pine planks, the length from ten to twenty feet or more; the width from three to five feet, and five or six feet high. It so uld be made of two inch pine plank, tongued or grooved, and closely joined, so that no steam, from the dung, may pass into the frame, raised six or seven feet befrom the frost by laying good litter on the surface of hind, and but twelve inches in front, both ends to be te ground, over their roots, particularly the choicest heatly sloped from the front to the back; the glasswork to range from the upright in front, sloping up-

ward to the back wall, to about a foot width at the top, where the ends are to rest upon a suitable frame of all to be boarded as close as possible; within side as to impregnate their fruit. may be two or three ranges of narrow slielves, along the back and ends, for pots of small plants, and the bottom levelled, on which to place pots of larger ten or eleven, will sufficiently warm the internal air sorts.

This kind of frame may be used with advantage where

dung can be easily obtained.

The season to use this frame is January and Februthe latter end of April, for the forcing of fruit trees the beginning of February, is time enough, but the plants which are intended to be forced, may be protected from the severe frosts, by the frame, but at to be forced.

When the plants are placed in the frame, agreeably common hot-beds, let it be piled up, close against the back and ends, a yard wide at bottom, drawing it gradually to a foot width at the top of the frame, let this lining be of a regular slope, that the wet may rnn off as much as possible, and as it settles down, add f sh dung, so that the lining may be kept always to the top of the frame.

In three or four weeks the heat must be renewed, by a lining of fresh dung, in the same manner. When a dong heat forcing frame can he made, of such capacious dimensions, so as to admit of a substantial hotbed of dung internally, to produce an increased degree of heat, it may be used to greater advantage in

many instances.

2. Bark Bed-heat.-This may be properly called, a forcing house, and it is worked by the assistance of a tanner's bark hot bed, formed in a pit, within side the

whose length.

This frame may be constructed with either of wood or brick work, with an upright front of glass, six feet high, and a sloping roof of glass, ranging from the up right front to the top of the back wall, the glass work, in every part, should be made to move on and off, as well as to slide backward and forward, to give air, &c. and at one end near the back wall, a door to endeep; part sunk, and the greater part raised, continued the whole length and width, except a foot and an half alley.

The pit may be filled any time before February; the bark will support a growing heat three months, and if then stirred up to the bottom, will continue the

heat two months longer.

The heat of the bark-bed will warm it internally, so as to forward any sorts of hardy flowers and fruits,

to perfection, at an early season,

Fresh air must be admitted, at all suitable opportunities, by sliding some of the glasses, in the day time, keeping them close at night, and covering them with mats, or closing it at night, with sliding shutters and then mats.

3. Fire-heat .- A forcing frame of this kind, is worked by having a stove or stoves behind, from thence communicating the heat, by internal flues, running the whole length of the back wall, in three returns one above another and continued in a flue, round the front A frame thus constructed, will answer not only for ripening fruit at an early season, but

This forcing house must be formed of brick work, glass, the length may be twenty, thirty, forty feet, or would be without bounds; the middle states are parmers, the width ten or lifteen feet, and height, eight cularly suited for this purpose, for if the seeds of naor ten. The number of stoves must be proportioned tural frun are planted, few would be wildings, and mato the has required. The whole notion space, within my would produce valuable fruit of new kinds. this frame, must be of rich garden mould, at least 'wo, spades deep.

The season for making the fires, in order to force trees and plants, is any time in January, or the begin of wood-work; and bars, three inches wide, must be ning of February, for if the trees are forced too early fixed from the back to the front for the support of there may be some danger of their failure, as in very the lights, as in common hot-bed frames, and the top severe weather, the air cannot be admitted so freely

The fires are to be lighted in the stoves, every afternoon, about four or five o'clock, and if kept up till of the house, till next morning, when if very cold. From the foregoing an idea of the construction of frosty, or cloudy damp weather, a moderate fire may a ung-heat forcing frame, may be formed, which may be arranged or altered to suit taste or convenience. fine days, and as the days grow longer, and the power of the sun greater, allow a greater proportion of air. Water the plants when necessary. Hot walls, or fire walls, may be with propriety considered as the last, ary, and may, in the middle states, be continued till and are principally designed for forcing the larger standard of fruit trees, &c.

Vineries.

Buildings of various kinds, for forcing vines, have been constructed for this purpose, for ripening the other times let them enjoy the full air, till they are choice kinds of late grapes. When they are constructed as the fire heat frame, (last art.) and a lattice, fixed at ten or twelve inches from the back flue to your prospect, put on the lights, and having a sure to which the vines should be trained. Sometimes the ficient quantity of fresh stable dung, prepared as for vines are planted on the outside of the building, and vines are planted on the outside of the building, and introduced, through holes, into the front, as low down as cao be done with convenience. They, are also, by others, planted inside, near the front, and trained up, to neat trellises, close under the sloping glass roof. Southern States.

> In the Southern states, where the winter frosts are not severe, apple, pear, peach, nectarine, apricot, cherry and plum trees, for both espaliers and standards, also almonds, quinces, gooseberries, and currants, may be planted, as well as the hardy fruit bear-

> ing trees, in the orchard. Each of the above kinds may be pruned; see March

and October.

#### ORCHARD.

Situation of an orchard.

The most suitable situation for an orchard, is a slooping south-east aspect, receiving the influence of the morning sun, and sheltered by its slope in some cations of the vine in France, is estimated at measure, from the pernicious effects of northerly, and 100,000,000 of dollars. The soil which is genermore particularly from the blithing north-east winds. Rich strong loams, with a portion of oyster shells, or other calcareous substances, will be advantageous. All dry rich lands will admit of flourishing apple trees, grain and cattle farms. The vine country of the and it is a general observation, that shelly land, capater; and within side a pit for the bark bed, three feet ble of producing good wheat, is an excellent soil. Newark, in the state of New-Jersey, is famed for its apples and eider; the soil around, is of a red shelly

#### 2.- The Trees of an Orchard.

As the orchard is designed to furnish an ample supply of the most useful kinds of fruit, it is therefore appropriated to such, as are termed standards, such as apple, pear, plum, cherry, peach, apricot, almond, and Kentucky, North Carolina, South Carolina, and nectarine trees; also mediars, mulberries, Spanish chesnut, and English walnut. The two last are more particularly serviceable, to be placed as boundaries to large orchards, as they will afford some protection to the other trees, from the keen, cold, piercing winds and frosts.

As the apple is the most important fruit, and uniformity is to be attended to, the most suitable distance for this tree, which is forty feet in the rows, and forty feet row from row, may be considered as a rule,

twenty-five feet would be sufficient.

trees, enumerates 133 kinds, raised in the United fairly to promise encouragement to the culforwarding such plants as require art to protect them, States, but as some persons prefer the natural fruit in their orchards, were the seed to be sown, the trees allowed to fruit in the nursery, and the good i. e the back and ends; the whole front must be of kinds only to be planted in the orchard, the variety

The variety of peaches are stated at thirty-eight. Apricots, six kinds; plums, eighteen kinds; cherries, twenty sorts.

3. - The requisite attention to be paid to the Trees.

As the trees are sometimes subject to be injured by noss, to remedy this, scrape it off with a round iron scraper; also dig round the trees, and bring fresh nould to them. When found necessary, thin their mould to them. When found necessary, thin their branches, cut off all dead or irregular shoots, as well as those which appear to be cankered, and in a decaying state, all of which should be cut off to some healthy leading branch.

Be particular to use a saw, for taking off the limbs and branches, that are too large for the knife, and smooth the cut parts with a drawing knife, which is

the most suitable for large amputations.

In pruning, a good general rule is, never to shorten the branches, unless to improve the figure of the tree, and then to take them off very close, at the separation, so that the wound may heal well and soon. If the wound be very large, cover it with tar, or thick point; if small, fresh cow-dung will be the best plaster, secured by a bandage of linen.

#### FROM THE NATIONAL INTELLIGENCER.

#### GRAPE VINE.

On the Cultivation of the Vine, the Fabrication of Wines, Brandies. Rectified Spirits of Wine, Cremor Tartar, and Dried Fruits, and Fresh Grapes, for Food and Diet-A RECAPITULATION.

#### No. VIII.

The importance of this culture is proved by the facts that the celebrated statesman, minister. and philosopher, Mr. Chaptal, declares it to be the second object in the agriculture of France, though it occupies but 2,000,000 of arpents of land, which are less than 2,000,000 of our acres. The whole amount of the productions and fabrially used, and which produces the finest wine, is of inferior character and quality, often unfit for United States, as held, in extenso, under the Louisiana treaty of A. D 1803, or as proposed by our government to be modified and reduced to narrow limitations by the Florida treaty of 1819, is much larger than that of France, the most extensive and valuable vine country owned and cultivated by any one people of the world. The experiments made in Indiana, Cohauila, from 26° north latitude, to 38° 40' in North America, prove the natural and present capacity of all that region, of nearly nine hundred common miles from south to north, for the production of the grape, as a crop; and as our country shall he cleared of its woods and forests, and drained in its great and small swamps, marshes, and alluvial grounds, the although when the whole orchard is of peach trees, sphere of the vine will be improved and extended to one thousand miles. The region of the Of the varieties of the apple, William Coxe, on fruit cotton, in its utmost northern extension, seems tivator of the vine. Hence St. Mary's and Talbot, in Maryland, Sussex, in Delaware, Cape May, in New Jersey, and the banks of the Rappahannock, Virginia, which, in the wars of 1775 and 1812, used their own cotton, are likely to gain by the application of their refuse lands. The same author enumerates eighty-eight sorts of of vineyards, which do not, like rice, indigo, and hills, ridges, sands and gravels, to the formation.

sugar, require men of colour. The success of part of less than half of New Jersey, yielding a society, by giving them a faithful account or present serves. One hundred millions of dol-goodness, beauty, and size, for current wine. lars from our two millions of worst lands, in but must want to buy them of those, who culti- sour oranges. vate grain and cattle farms. The interest of New York and the north, though indirect in the vines, books of instruction, vine dressers, inforproposed southern vineyards, is as plain as the mation as to tools, implements, utensils, presses direct interests of the Carolinas, Georgia, the and buildings, can be collected from many states formed out of Louisiana, Virginia, Ken French, Spanish, Portuguese, German, Italian. tu ky, and Tennessee, in those vineyards; or and English books, which should be sought in of Indiana and Illinois.

on very cheap and healthy lands, in a whole-panies. some culture, chiefly with the plough and harrow, will multiply white population in the south, and render the gradual abolition of slavery more early, safe and practicable.

It is certain that the culture of the vine and the fabrication of wines is compatible with every industrious and successful prosecution of agriculture for general purposes. It has been considered in Europe, that no country more abounded in the necessaries for human comfort and subsistence, than the dos inions of the emperor of Germany in 1794, or Austria, Hungary, Bohenua, and Lombardy. Yet these were all profitable wine countries So of Switzerland, where grass lands, irrigated, have been sold at one thousand dollars per acre. So of Piedmont. So of France, in which wine and brandy are made, society over which you preside, it was in the in all its old provinces, except Artois. Picaray, hope and expectation of heing benefitted by the Normandy, and the middle and northern parts instruction I should receive from the observa of the two provinces of Bretagne and Maine In tions and experience of the industrious and enthose north-western provinces, the grape, unfit terprising agriculturists compoing that society. for w nes, is elegant and fine for suspenance and being collected as it were, into one common for diet. In the other twenty-five of the ancient fund, upon which, as a needy and inexperience provinces, the vine and the fabrication of wines ed member, I could draw at discretion as occa-

the vine in Judea, (five to ten degrees south of cross yearly income of one hundred millions of the Orange Groves of Macedonia, Nice, Portu Hollars. Yet wool, iron, silk and flax, bread and gal. Spain, and Provence and of their vine-meat, builders and improvers', and manufacturvarile: (with our North American Cohouile, ers' wages are lower in France than in the Unit proves irrefragably, that no part of the United ed States. The vine cultivation is then perfect-States is too hot for the vine. Many errors by compatible with a good general system of naoccur in new cultivations. The papers of tional industry. The north of Germany, Silesia, "The Friend to National Industry," No. 1 to Sweden, Denmark, England, and the Nether-8, in November and December of this year, lands, only refrain from the vine, because they are intended to prevent some of these. The are too far north. So the northern British proemployment of rich, bottom, and flat lands, and vinces of America will never cope with us in of stable manure, are shown to be against all our vineyards, more than in our sugar, cotton, land turned up to the winter frosts and snow, the advices of the experienced vine cultivators rice, tohacco, and indigo plantations. Since all of Europe. The republication of those papers vines were once wild, like all men and other from the National Intelligencer, the Philadel- animals, it must be presumed, that it is our inphia National Recorder, and the Baltimore terest to cultivate all our wild grape vines. The Farmer's Gazette, in some of the newspapers wood, or natural meadow strawberry, cultivated, of all the states from 39° north to the Gulf of in bunches, so as to hoe between the rows, is im-Mexico, would be an useful incitement and proved strikingly in a year or two. So of the opening of the subject. It is respectfully sug-red currant. Rich, full colored green or black gested, that "a joint committee of agriculture," grapes, of the largest and ripest, picked from the if appointed by the Senate and House of Repre-hunch, must afford the best means of propagatsentatives of the United States, could not take ing by seed. In Scotland, the red and the white up a more important subject as far as memory at current, thus propagated, has been trebled in

The grape has been manifestly intended by the extensive country south of Pennsylvania, is Divine Providence, as a food and a diet for the a most important object, at this time, when our inhabitants of warm climates, and for more northother crops are failing. If that vast southern ern people, in the hot season. So of its exceldistrict and population employ themselves on lent vinegar, salt or tartar, and dried fruit. The this new branch of culture, the states north of French and Spaniards keep their fresh grapes as Maryland, Delaware and Virginia, will have to we keep apples: and we constantly import fresh themselves so much more of the grain, grass, or undried European grapes into all our seaports and cattle farming. Those who raise vines, where they are sold for 40, 50, and 60 cents per canes, cotton, rice, indigo, tobacco, figs, prunes. Ib. They might be sent from the southern states dates and olives, cannot raise bread and meat, to those of the Chesapeake, like their sweet and

The methods of procuring seeds, cuttings our stores and libraries, and imported by book-This cultivation, by collecting white families sellers, individuals, travellers, and library com-

> A Friend to National Industry. Philadelphia, Dec. 10, 1819.

FROM THE AMERICAN WATCHMAN.

New Castle Hundred, Aug. 28, 1819.

To Dr. David Stewart, President of the Agricultural Society of New Castle County.

Sir,-As our stock of practical agricultural information must depend upon individual contributions, I hope as the 'widow's mite' was well received, the trifle I now offer may be acceptable also.

When I became a member of the honorable generally prevail, eccepying grounds of the ex-Ision might require: paying an interest to the with the corn rakes.

such observations and discoveries as I may have nade upon the information so obtained, or other-

The only thing I have to offer in that way at present, is on fall ploughing, as a winter fallow for a corn crop; and perhaps there is no periodical operation in preparing the ground for a crop more deserving attention; it has been iccommended frequently as an almost certain preventive against the ravages of the cut worm, in corn; and philosophical theorists tell us that will collect nitre (from the atmosphere) which they say is the vital principle of vegetation.

I commenced farming where I now live, in the spring of 1817, on a kindly soil, though most miserably broken down by hard usage and neglect. My ground was flushed up in April, and corn planted in squares of four feet six inches in the first week in May. The cut worm was so destructive in that year, that we replanted the third time-the season was unfavorable, and I had a very light crop.—Desirous to avoid a like disappointment, and to give the ground the advantage of collecting nitre, I ploughed the field intended for the next year's crop in November. The injury done by the cut worm to corn generally was small in 1818, compared with the preceding year; to mine it was trifling—the season proved favorable, and considering the reduced tate of the land under cultivation, I had a much better crop of corn than I could have expected, without manure-the ears were large and fine, and so early made, that I commenced cutting it off the ground the 15th September, thus saving all the fodder without injury to the grain, either in quality or quantity. Still bearing in mind, the cut worm and the nitre, and believing from my unexpected good crop this year, that much benefit had resulted from the fall ploughing, I determined to adhere to the practice, and accordingly gave my intended corn ground for the pr sent year, a pretty deep ploughing in the latter end of last November, as nearly at right angles with the slope or declivity or the ground, as the form of the field would permit-thus it laid open and exposed to the winter frosts, which completely pulverised the sward-the rain and meited snows were readily and entirely borbed by the soil and clay below the reach of the plough, and I observed the surface become mouldable much earlier in April, than those lee fields which my neighbours were breaking up or flushing for their corn. Between the 16th and 20th April, I had my corn fallows well narrowed, and by the Soth, had them cross ploughed, then harrowed again, and on the 1st of May, when we began running out the rows, the whole field was in a state of preparation as mellow and nuc as a sallad bed. We run the first turrows about the same depth the ground had been ploughed, exactly four feet six inches, not quite so deep as the first, leaving a little loose mould in the notion of the first furrow to plant upon, which we did the 4th and 5th May-4 grains in each full, without deviation. The corn came up well-no cut worm appeared to its anjary, and on the 26 June, we have it two strokes on each row with the alms harrow, and a light dressing

and quite clear of clods. The next week I re-thrive. Those clods on the surface absorb the throw away the cobbs, we throw away a porduced the stalks to three in each hill, and plas- lews and light showers, and give them again to ion of food, equal to the difference between 9 tered it. About the middle of June, the neighbor winds, thus depriving the earth of its natur bors all around, had been some time at work it it supply of moisture, the effects of which upon their corn fields, some with ploughs, and other young corn must be evident to first view .- 5th. the difference in favour of the mixture, is still with fluke harrows, raising such a dust, that at a Last, but not least. Ground well ploughed in greater, the pure meal being more than three distance any one would have thought they were November in our soil, will absorb and let down nounds heavier in the bushel, and I am insowing plaster broad cast on their cornfields. I into the loam below, all the rains and melted clined to hink that the product of the mixture, thought I would be doing something too, though snows during the winter and first spring months would have been greater, if the experiment had my corn looked well, and I could not see that it (none run off my fields last winter nor spring) wen made earlier in the year, before the cobbs wanted any thing, the ground being clean and thus providing a reservoir of moisture immediate lost much of their substance by evaporametlow. We however went to work with the diately under the roots of the corn, which will tion. (My experiment was made in the month floke barrow, but it so disfigured the surface of rise to the surface through a mellow soil, and of March.) The distiller mentioned an imthe ground, and turned the moist mould up to supply them regularly with moisture during such portant fact, that occurred in the process. He the hot sun and wind, that I could not hear the a drought as we have experienced this season, found, that the fermentation of the mixture, it again across the first harrowing-gave it a dry weather. light dressing with the corn rakes, and the whole field looked as smooth as an onion bed. The 30th June, at might, we had a copious shower, which put the field in fine order for working. On the 1st and 2d July, turned a furrow to the corn and gave it a hoe dressing-thus it lay until the 15th, when we had a light shower in the evening, and the next morning we went into the comfield, with the fluke harrow to fluke down the middles, but it left the surface so rough that I took out the three flukes and put in seven square teeth taken out of the fallow harrow, with which we harrowed down the middles lengthwise twice in a row.

The 20th of July we had another light shower in the alternoon; on the 27th and 28th, suckered and cross-harrowed with the seven toothed harrow, two strokes in a row, and so laid it by ago, I was conversing with our esteemed friend or in what proportion to each other, they are the ground quite smooth and level, except a and worthy member John Patterson, upon the required to exist, in order to constitute a small rise at each hill, left by the harrow passing value of the corn cobb, ground up with the healthy food. I do not pretend to know. It on the different sides at about six inches distant grain, as a food for stock. H. suggested the s certain, however, that the two latter do exfrom the stocks; and my corn, I think I can say idea of testing its nutritive strength by the pro-ist, in some degree, in the cobbs of corn; and with truth, has suffered very little from the cess of distillation, which I undertook to do since the experience of all who have tried it, drought-when that of my neighbors was of a and furnished him with the result, with a view concur in reporting it to be the most healthy bad color, and shrivelled and twisted, as though of having it communicated to our Society, mode of feeding corn, perhaps it will not be scorched with fire, mine was smooth, glossy, and But he mislaid my letter, previous to his re lunfair to infer, that they maintain a due and preserved its deep green color through the driest moval from Virginia, and as the experiment proper proportion to the spirit. If so, the exand hottest weather, and I think is full as good was very flattering, I venture to detail it to periment must be satisfactory, and the conclua crop as I had last year.

ploughing, and the advantages I have experienc-lintelligent distiller and was as follows. ed from a winter fallow in raising a corn crop. Ten bushels of the corn and cobb ground to-which ought to engage the attention of every 1st. It turns up the grass roots, &c. to perish gether were taken, which weighed 367lbs, and farmer.—It is notoriously true, that the unand commence decomposition at an earlier period ten bushels of pure corn meal were taken ground grain of corn, is heating to the stothan it left in a state of vegetable life for a spring which weighed 400lbs. They were both brew-mach of all animals, and of difficult digestion, ploughing to destroy -2d. It exposes the sward ed or mashed on the same day, and distilled so producing choic, and other inflammatory disto the frost, which will in the course of the win parately, with great care and accuracy. The orders, particularly in horses, which tend ter pulverise my stiffest ground, and render it product of the pure corn was 18 gallons, and greatly to shorten their lives. They are defit for the plough and harrow to work in earlier the product of the mixture, or corn and cobb, prived of the benefits derived from the stimus in the spring than the unploughed ground will was, 13 gallons of spirit, each of the same de-lus of distension, (so necessary to the prop r be, and thus give a mellow mould to plant and gree of proof. Now, it is generally agreed, health of all animals,) by being unable to eat work the corn in. Sd. The corn will require that the cobb constitutes about one half of the a sufficient bulk to produce it, before they beliess work in the busy season—a fall ploughing bulk of corn, in other words, we give two meacome gorged. But when ground into meal, I consider equal to two summer dressings of any sures in the ears for one shelled, and the stong with the cobbs, and mixed with cut hay or kind, on the score of keeping the ground clean cobbs are either used as fuel, or thrown away straw of any kind, this necessary distension is and mellow. 4th. I consider clods the greatest as of no value.—If this were true, the product produced, without any danger of disorders arisenemy corn can have, either on the surface of of the mixture then, should have been only 9 ong from eating too much. It is now eight years the ground or below it .- Those below the sur-gallons, which is the half of what the pure since I have been in the habit of feeding corn face oppose a resistance to the tender corn roots corn produced. But 13 were obtained, four in this way, and out of six to ten horses, which which they cannot overcome, and are obliged to of which, must have been of course, extracted I have annually kept in that time, there has make their way through the interstices or open-from the cobbs; or if we estimate its nutritive been but one case of sickness among them, ings which continually exist between them, in power by the quantity of spirit, it is clear, that which was a slight cholic. Indeed since I have

The ground was extremely mellow and fine, which if they do not perish, at least they cannot whenever we shell ten bushels of corn, and operation—the fluke harrow was dismised, and if it be not dissipated nor destroyed by injude took place much sooner, and was perfected a on the 14th and 15th, run the fallow harrow over cious and unnecessury working the corn in hot, lay or two earlier than the other. His ex-

> I am, respectfully, yours, &c. THOS. MENDELL.

FOR THE AMERICAN FARMER.

PROCLEDINGS OF THE AGRICULTURAL SOCIETY

OF ALBEMARLE.

On the value of the Cobbs of Corn.

As a Food for Stock.

No. 5.

[READ, MAY 10th, 1819.]

yon, for the Society's information It was car-sion I have drawn from it undeniable. I now return to some observations on fall ried on under the eye of an experienced and But besides, the actual economy, there is

and 13. or nearly one half.

As it relates to the respective weight of each. pression, was, that it mashed much easier, and better than any thin he had tried before, and which he accounted for, by supposing that the particles of the cobb being lighter and coarser than those of the grain, but mixed together, prevented too close and heavy a deposition of the mass at the hottom of his brewing tab.

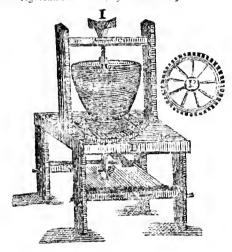
These facts are particularly worthy the attention of distillers, and I think, are perfectly satisfectory, as to the value of corn cobbs in the production of spirit. Whether they are equally so in relation to their value, as a food, is left to the comists to determine. We are aware that the sucharine particles, or those yielding spirit, are not the only constituents of nourishment. We know that oily and muci-Rulgeway, May 1st. 1819. laginous particles are also component and neces-DEAR SIR, - More than twelve months sarv parts of food. But which preponderates,

another advantage in this way of feeding corn,

lived in this country, which is now eleven year. Frine whitever, even what gathers in the bottom of there has been but one death among that do- he tub, from the melting of the salt alone, the Edu scription of stock on my plantation, and that the that late Jacob Gibson of Talbot county, celebra occurred to a mare with a young foal, in a dis-ed for his good bacon, as for his general good motant cloverfield without having been feel for nagement, had holes bored in the bottom of his mea many weeks, and which took two or three day-tubs, to let even that brine pass off. I', however, th before it was known; this uncommon health of reader will exactly pursue the recommendations of my horses. Lattribute in a great degree to the use of ground food.

Your's with esteem and friendship, P. MINOR.

General COCKE, Vice-President of the Agricultural Society of . ilbemarle. S



B Step for spindle,

C Spout, E Hoon,

D Bed for Mill.

A to raise or lower runner, | T bolts for Frame, G Snugs to holt down hop per,

S Uprights, H Spindle,

RO For spindle to run in,

I Wingcoupling for top of Spindle & upright shaft. P Instead of I.

#### YORK COUNTY, STATE OF PENNSYLVANIA,

May 5th, 1819.

erected one of the machines for breaking and lown judgment. grinding corn with the cob, invented by John when not frozen will give a pretty good crite-Rudgers, of Baltimore, and Joseph Demund officen, if it appears to be hard, and crack about New Jersey.—Certifying that the said machine, the kidneys like heef suct into small squares has in my mill ground at the rate of 12 hushels I avoid such whose fat is more tenacious and per hour with ease, fine enough for hominy.

GEORGE LOUCKS, Miller.

#### THE ART OF MAKING GOOD BACON.

the country it is a standard dish, which never cloys what Ruta Baga may do I know not. the taste, and never fails to be treated with very pointed respect and attention wherever it makes its

To the testimony of Sylvanus we can add ours that neither brine, or sugar, or molasses are of any use or advantage.- Last year the Editor was prevail ed on to increase the quantity of salipetre, putting 4 pounds to 1566 weight; but he inclines to think . had a tendency to make the meat very hard imme distely after cooling; be has therefore returned to the use of the quantity recommended by Sylvanus, whose observations convey several new suggestions, and

Sylvanus, in the selection of his meat, and the process of curing, he need not fear the result. 33 Another norin vindication of the rights of the housewife.-We sha always impartially claim from the ladies the perform ance of duties properly within their province; but we shall as studiously resist the imposition of burthenwhich are alike incompatible with their position the domestic circle, and the delicacy of their const turion. We mean then to say, that the superintendence of the cutting up, and salting and smoking the meat for the year's family consumption, does not properly belong to the lady of the house; although we know, that, time immemorial, this task has been, in many neighbourhoods imposed on them It is a heavi coarse, laborious operation, which ought to be done under the eye of the master. It is his duty to prepare every thing for the hands of the cook, and it is not until every thing for the table is placed in the kitchen, that the wife should be called on for her attention.

Editor of the American Farmer.

#### FOR THE AMERICAN FARMER.

Elmwood, Dec. 29, 1819.

MR. SKINNER, -As I am blockaded by the snow to-day, I thought I would turn my atten tion to economics, and see about hanging up my from the butcher's stall: and as nov bacon has perienced. In December I procure hogs inclined to transparency, adhering to the finzers, and bearing the complexion of lard.

In the catalogue of "good things" good bacon from any food that we are now acquainted with good purposes of saltpetre. But the care of

dling, of course, as long as it admits.

reasons for old practices. As to the necessity of any very dry, cold weather, the alum is two tardy, ing it to the wood work. All these accidents

e. not ultimately to cure, but for the time ill aved by me, -so they correct each other.

This composition is to be well rubbed on, and then sprinkled thickly on the cut surface of be meat. There is no danger of over-salting from quantity, it is length of time that has that efect. The meat is now to be laid in good casks, the lums and shoulders first, skin downvard, and then the middlings and smaller blaces.

In two weeks the casks are to be emptied and all but the hams and shoulders removed, being spited sufficiently; whilst those larger pieces (the haors and shoulders) are to be re-packed. outting those which seem least salted lowest among the brine .- A change of position is absolutely necessary, for the pressure is so great, that the brine will not pass equally through the meat if it is not once turned. In three weeks from the salting the shoulders are to be removed, and in four weeks the hams. Every piece of pork on taking out of salt should be cleanly washed, by dipping a cloth in hot water, and washing off the salt brine and dirt on the pavement, and not into the tub, least that become brine, and thus you would give the meat a second salting instead of washing off what was loosely adhering. This washing promotes the drying of the meat, and further tends to equalizing the saline flavour through the meat, and should not be neglected.

It will be perceived that I have not mentionbacon. This is an article of great importance ed the article sugar, so much esteemed by to us country gentlemen who live at a distance many .- Ten years experience with it, and ten years experience without it has fully corrected been often praised by good judges. I thought I my judgment on this article. If any person would give you a paper containing my practice will try two parcels, one with and the other in curing it, for the benefit of those less ex- without sugar he will find the following result: -That his bacon cured with sugar will be de-(without any regard to moonshine) weighing prived of the fine red colour two months longer about 150 lbs. each, avoiding smaller, more for that addition; therefore it is certain that it than larger sizes .- I insist on their having been interferes with the saltpetre, and if the saltcorn-fed for five or six weeks. -If I cannot get patre is of any service the sugar prevents that, This is to certify, that I the subscriber, have the assurance of a man of truth. I trust to my and I presume it adds nothing to compensate. The disposition of the fat The fresh mawkish taste of the saltpetre is admirably adapted to temper the excessive sapid flavor of common salt, whilst the beautiful red colour is highly pleasing to the eye. It likewise interferes with the salt, and prevents too large a quantity from being absurbed, and thus preserves the meat from that hardness which If the lard when tried and cold is hard and bacon acquires when this article is left out.white, there will be no danger of deception Hickory ashes I am told answers nearly all the deservedly holds a conspicuous place In this part of and we may rely on its being curn-fed pork, making good bacon does not end here; -we must follow it to the smoke house. Let each I know of nothing in the cutting up the meat piece oe hung up clear of another, and there that deserves much ttention, except to keep hang till quite dry, then kindle a fire to smoke diffuse the knowledge of making it after the best parts together that require an equal time for it in a fire place of the following construction: manner, must be well received; -and we feet warrant- curing, so that those who cut many of the ribs -Build a chimney with a very low fire place ed. in saying, that he who pursues the following pro- with the shoulder, do an injury; for the should exactly as for a sitting room, and when the ccss, so well described by our much valued corresponder requires three weeks salting and smoking, channey is carried up four feet close it at top. dent STLVANUS, will be sure to succeed.

To the testimony of Stlyamus, we can add one whilst the ris require but two: I therefore cut A small grate made with hoops or small bars of the shoulder as short as possible, and the mid- an old gridiron, at four inches from the hearth, will assist the burning of the wood. By having To every 1000 lbs, of meat I put 3 pecks of a chimney thus constructed, the blaze of the alt, and one third or half a pound of salt-lire can never injure either house or meat, and etre.-I prefer mixing half ground alum sa r no pieces can fall into the fire when a string or oith Liverpool, for in very soft weather to half gives way. Houses have been burned by everpool will run off must too quickly, and in pieces of meat failing on the fire, and disperse

are thus prevented, and whilst the blaze and! smoke ascends the blind chimney, the smoke I send you some observations which I have the same farm with the cows there are two hormust descend again and pour into the smoke made, while examining several horses affected ses, neither of which has the disease; on anohouse. A small chimney in brick houses on a with that foul and often fatal complaint, called ther farm, there are seven horses, five have the corner of the wall may be useful to let out the the Sore Tongue. smoke, but no holes in the wall to admit a ray of light. Some chips and a few billets of hick-pearance here, the fall past, and has become ory make the best smoke,-these will also keep very prevalent. It doubtless is contagious. the house warm, which is very important; for if the smake house is cold, as will be the case disease are a factid breath, slobbering and a of these horses has taken it in another case when the smoke is carried by a flue from a low er story or another house, all our former care the first attempts at mastication. will be lost ;-a damp will settle on the bacon. and it will have a bitter flavor.

gained no colour, but got a bad taste. I am extremely fætid. satisfied he was correct, and he had large exnecessary to preserve the bacon from flies,-it fall victims to this loathsome disease. may there hang in perfect safety till wanted .meat in May and June, and then he will see the acceptable to the public. quality of his meat; that which is not corn-fed will crack and offer places of deposit for skippers, which should be filled up with ashes, and if any are already deposited, let the ashes be Union, Loudoun County, (Va.) taker, out the hearth as hot as fire and put in. The meat that is corn-fed will be close all around the cut. A ham of the first kind will ness, and overlook the dish :- will look as his fellow men, and assist each other in times proud, if not as warlike as Juvenal's lobster .dish,-a most delightful sauce! Such a dish, early part of this month, since which time other to set before his guest.

SILVANUS.

# More of the Sore Tongue.

Symptoms, Effects, and cure.

We have already published, on this subject, an extract of a letter from a gentleman in Ken- 7 cows taken all; on the 9th, I was requested looking into the mouth the tongue will be blistucky, describing this distressing malady as it to visit them, and I found the disease to be the tered, or the blister may have come off and the prevails in that state, with an account of the prevailing epidemic, I directed the mouth wash tongue appear extremely sore; in some cases, mode of treatment which has usually been to be used twice a day, and ordered that they the hips and cheeks swell-if no other sympfound effectual-a receipt to cure it, taken should be kept in the cow stable that night and toms appear, the disease is not alarming, out from the Federal Gazette has also been insertin the morning die overseer to notice how they will give way to the mouth wash. In some subed in the Farmer—we now subjoin some furwere as to the state of their bowels, the inforther notice of the complaint, deeming it useful mation was, that they had all passages but generally affected—the horse is feedle,—ms this paper affords—to which reference may be should have one pint of raw flaxseed oil, every pulsations in a minute: an obstruction in the had, whenever occasion may hereafter require day, until her passages returned to a healthy bowels. i. e. the horse may not have more than

Editor of Am. karmer.

MR. SKINNEN,-Agreeably to your request, I to take their food, and are fast recovering. On

The complaint I believe made its first ap-

The first symptoms which characterise this

From, Dear Sir, your friend, and very humble servant. ĎAVID E. BROWN

Dec. 7th, 1819.

shrink in boiling, and cut but a poor figure on one intention of man being placed in this world the table, whilst the latter will swell to round-is, that he might live in mutual friendship with tery. of calamity and distress; I embrace this time When the sharp carver enters the cover, the to make this communication in addition to the essence will flow in a stream and fill the whole one which appeared in the public papers, the with hoiled poultry and savoys, though often re-have had a great number of horses and horned peated, never looses its relish with the labouri-cattle under my notice, labouring under the ous husbandman, and he seidom thinks of any present epidemical disease-Judge sir, the sincere gratitude that I feel to the disposer of all good, for the recovery of every one that has come under my notice, by following the course pain in the act of swallowing-this is when the

cation with facts, the following will serve-

state, twice administered is generally enough, one or two passages, or perhaps none through I have the pleasure to hear that they are all able the night: when these symptoms appear, give

complaint, but not one of the cows, (although there are a number on the place.) In a livery stable that has 29 horses, three have had the disorder, these three stood in different parts of the stable, but not one that stood on either side disposition to drop its food immediately after the owner told his boy to take from his horse which had the complaint, the food that was in In the course of from one to three days from the manger and throw it away, the horse, had the commencement of these symptoms, the attempted to eat and had slabbered in it, under A Mr. A. of Baltimore taught me never to tongue, high up in the month, will be found the influence of economy, the boy gave it to make a smoke in damp weather, a practice so on examination, entirely raw. The breath of the cow, she did eat it; when this came to be much followed; for as he observed, his meat the animal becomes at this stage of the disease known by the owner, he was a little wroth exrecting his cow must have taken the infection, At this time the creature generally refuses to about three weeks has elapsed, but the cow conperience, as he followed smoking for gain .- eat or drink, but when it retains a disposition finues well, although nothing was done to pre-One good fire per diem will smoke the pieces for either, the muscles necessary for deglutition vent the infection taking effect. I think the exactly in the same times they were salted, viz. are paralitic or so sore, that the animal refuses above facts sufficient to prove the disorder nei-hams 4 weeks, shoulders 3 weeks, other pieces to will them into action. The canker continues ther contagious or infectious; we have no proof in two. When the bacon is smoked and all re- to spread until it pervades the whole surface of that the want of rain has produced it, because turned to the smoke house, a floor, if not laid of the tongue: the cheeks and lips become swol-lin Baltimore and its vicinity, every animal has, before should now be laid on the joist; by this len; and not with standing the most rigorous per- or might have had its usual supply of water; n eans rats will be prevented from descending severance in the use of those means which have should it be admitted that the feed being defecon the bacon, and the heat of the sun will be heretofore been suggested or prescribed, often live, produced the cause, I am unable to acmoderated, so that the bacon will not drip in terminates in gangrene and mortification of the count for so few having the complaint in the summer heats. Darkness and coolness are tongue. Thus many poor emaciated animals stable above stated, and the whole 29 horses being fed with the same hay and grain and A remedy which could be uniformly relied on breathing the same atmospheric air, that 26 of But a prudent housekeeper will inspect his as a cure for this latal malady would be truly the above number should escape the infection, while the other three have finally recovered remaining in the same stable! Had the disease been confined to the state of Kentucky, it would be evident that the hot and dry season we have had, was the cause as in some parts of that state, the inhabitants have had to drive their cattle forty miles to water-from the above MR. SKINNER,-Impressed with an idea that tacts I believe you will agree with me, that the cause of the above disease is enveloped in mys-I am sir yours,

and the public's humble servant, JOHN HASLAM, V. S.

Baltimore, 20th Dec. 1819.

The following is an extract from Mr. HASLAM's communication which was published in the daily news-papers, and contains his receipt for the cure of the BURNT TONGUE.

The first symptom that some horses show, is I recommended, although some were so severe- disease commences in the throat; in others, it ly afflicted, as to cause me uneasy moments begins nearer the end of the tongue, and in As I am desirous to illustrate my communi- these, the first symptom is a willingness to eat, but unable on account of the pains, with con-On the 7th of the present month, there were siderable slabbering of adhesive saliva-on to record such matters, in a repository, such as at the same time costive. I directed that each pulse low, and instead of 40, not more than 64

shorts or bran made into a slop-if he will to his mouth-some will eat hay, rather than potatoe. any other food.

day with a swab dipped in the mixture, introducing it as far up the mouth as convenient; in should be hardened with corn. some cases I have taken blood, but could not

### perceive that it produced any effect.

Occasional Extracts. TO THE EDITOR OF THE AMERICAN FARMER.

---

MR. SKINNER, -It was with extreme regret, I something to the general stock of information, and using his humble efforts to better the agriculture of the nation. I done us patriæ, sit utilis agris.\* I am delighted that my weak and mysconceived remarks, have elicited his experiments, for they appear to have been made by one of a discerning mind, and discriminating in-

This writer had inquired "what quantity of ruta baga, and the length of time required, without the assistance of grain, would render a bullock of any given weight, fit for the butcher."-From the words without the assistance of grain. I concluded that he meant to feed the bullock entirely on this vegetable, or at least to the entire exclusion of grain, and conceiving this to be an error, I was willing to correct it, as far as my inferior knowledge would allow. If I have erred in the construction of the sense, I trust he I forbear to say more, and will on this head only

My observations on this vegetable have been not yet of one year's standing. I obtained a pound from Cobbett, sowed broad cast more than a third, upon a third of an acre. It was greatly too thick. The seed was rolled in plaster, and plastered when very young. It was never thinned as it should have been, from not knowing the depth of the root, and immense size of the leaves. Wretched as the season was the produce of this third of an acre, was one hundred and ten bushels, (trimmed) of the largest and fifty bushels of the smaller, which latter were fed to the logs, boiled. These hogs were coase of the moon, will, when cooked, shrink from the per bushel. Black-tree Pears, 80 to 85 cts per do of the largest with the flesh of animals killed in the decrease of the moon, will, when cooked, shrink from the per bushel. Black-tree Pears, 80 to 85 cts per do of the largest with the flesh of the per bushel. Black-tree Pears, 80 to 85 cts per do of the per bushel. Black-tree Pears, 80 to 85 cts per do of the per bushel. Black-tree Pears, 80 to 85 cts per do of the per bushel. Black-tree Pears, 80 to 85 cts per do of the per bushel. the leaves. Wretched as the season was the as to have three different kinds of feed in a da-

him, according to his size, a pint or 3 half pints [change than usual, and when I began to corn argument that their last feeds will do them no of raw flaxseed oil, or one hottle of castor oil; feed, I thought they thrived astonishingly, which good till digested. I am further of the opinion if in 24 or 30 hours after it is given, it should I thought was attributable not exclusively, but that all well fed animals will have high fevers

not take this, scald outs that they may be soft cold food, I think it preferable to the Irish not so delicious nor wholesome, as when killed

The wash I use is alum and salt petre, each well without indian corn, not so the hog; his fat perhaps have more influence in shrinking the one ounce, vinegar a pint, honey half a pint, if not corn fed at the close, will be soft and oily, meat in the tub or pot, than the moon has. I the mouth to be cleansed two or three times a but he may be fattened, and grow to an enormous size on boiled vegetables, and then his fat

ber" an acre of ground will produce 400 bushels in contradiction to extensive practice, it may are equal to 4 bushels of shelled corn, and six pondent. Yours, &c. A YOUNG FARMER. weeks, exclusive feeding on each, which is \frac{1}{3} of food, and one half the time. My own observation convinces me, that it is better to sell all the corn I can by substitution of other eatables, because considered as having been very singular in vadiscovered that "A Subscriber" in page 312, it is more valuable, more difficult of agriculture, rious parts of this and of other countries. had misconstrued my design. I would not wil- more easily transported to market; but I have Among the extraordinary circumstances of the lingly offend any writer for a paper so valuable: made no experiments in exclusive feeding on a season, is that of double crops of fruit. To I consider every contributor to the American particular food, being convinced that it is erro-the statements we have already published on Farmer, however lowly he may be, and surely neous. I have imparted my ideas, and hope this subject, we add the following from the I am one of its lowliest tribe, as advancing they may be taken in good part, as I have no wish Charleston Patriot of the 22d ult. - From a to offend, and only read, to learn, and write to single pear tree, were gathered, to August just. improve.

- Si quid novisti rectius istis, Candidus imperti, si non his utere macam.

A FRIEND.

P. S. To make 400 bushels of corn, at 50 bushels to the acre, (an enormous product) would require eight acres, and in many places this year there was not made six bushels to an acre, and the season was alike unfavorable to corn as tur-

#### FOR THE AMERICAN FARMER.

St. Domingo Farm, Dec. 3, 1819.

Mr. Skinner,—Having lately appointed a day to slaughter my hogs, and desired my manager to make the necessary arrangements, he replied that it was not the right time in the moon, that the meat would shrink\* if I killed it will remember, "to err is human, to forgive, in the decrease of the moon. When I ridicaldivine." Your paper is not a controversial one, ed the idea of lunar influence, he observed say, I am sorry to have given offence, and trust feed them the day before they are killed.' I the rot, as suggested by General Troup, of Georgia, "A Subscriber" will deem it so. told him that was not the kind of preparation I wanted him to make; that I thought his notions were as wrong in this, as about the moon, and requested him to feed them as usual.—The 90 days, for \$7.50-EGGS, per doz. 31 cts.—Chickens, above occurrence induced me to communicate per doz. \$2.30-Butron, 37½ cts.-Tunedis, \$1 to to you my opinion, that the common practice of \$1.25-theese, 62.1-3 to 75 cts. Veal, per quarter \$1.25-theese, 62.1-3 to 75 cts. starving hogs a day or two before killing them, tor the double purpose of saving fee t, and having the reinpty to facilitate the handling and open-

fed alternately on boiled potatoes, boiled ruta bone, leaving much of it exposed, when brought on baga, and tops, and pumpkins before I began to the table. But he has heard it maintained most bags, and tops, and pumpking of toe 1 began to strength set one of set of the We wal cheerfully publish some cat confidence My rogs thrived I thought better with this reasoning and facts, in two of this old opinion if any cents, per lb. one can be found to advocate it under their proper names.

not begin to operate, it must be repeated—let in no small measure to the introduction of the from long fasts, and particularly the hog, as he him drink as usual. The best food is chopt rye, ruta baga. The other will be fed away to stock, and as a that the flesh of animals dying with a fever is in a healthy, thriving condition, as the fever The ox, the cow, the sheep, will all fatten will diminish and deteriorate the joices, and wish to occupy but little room in your very useful paper, because of my incompetency to employ it to advantage; but I have a desire According to the experiment of "A Subscri-that the above opinion may be published, as it is of ruta baga, 32 bushels of which, and 12 weeks cause further examining from an abler corres-

#### EXTRAORDINARY SEASON.

In some respects, the past season may be in this city, upwards of 300 pears, one of which weighed one pound, seven ounces, and measured thirteen and an half inches in cir-Nearly the whole of the number cumference. were but little short, we have been told, of this The same tree produced, our informant size. states, a second crop of 250 pears, gathered in the middle of this month, some of which weighed from four to five and an half ounces. They are said to be well flavored, and extremely juicy."

# THE FARMER.

BALTIMORE, FRIDAY, JANUARY 7, 1820.

The Editor of the American Farmer has purchased. for the Agricultural Society of South Carolina, 1000 lbs. of seed cotton, imported from South America, by Col. Thomas Tenant, who has consented to send the balance of the importation, to be sold at Charleston. Southern Planters will thus have an early opportunity "Then if you will have them killed, I will not of ascertaining whether imported seed may not resist

> Present Prices of Country Produce in this Market. Actual sales - Six hogsheads Virginia Tonacco, sold the last week, by Wm. M'Donald & Son, on a credit of 55 to S1 75 -Do. per lb. 6 to 8 cts -Potatoes, per bushel, 75 cts -Onions, do. S1 50 - Tunnies, do. 50 cts.—Whiskey, from the wagons, 37 1-3 cts - Flour, from do S 56-Pork, per cwt S7-Live Cattle 36

> Fifteen very fine fat Bakewell Sheep, raised by Mr. Exton, of Dragon Neck Delaware, weighing from 90 to 120 lbs., were purchased last week, by Mr. George them sold in market on Wednesday last, at 10 and 15

> No attenation in the price of grain worth noticingsince our last.

\*Juv. Sat. 14.

#### PRICES CURRENT Almanack for 1820. AT BALTIMORE: Carefully Revised and Corrected every Thursday. Thursday. PER RETAIL PRICES ARTICLES. BEEF, Northern mess bbl. No 1. JANUARY, 13 50 No 2. Bacon, lb. 1.2 1 1 Butter, Ferkin () Coffee, first quality, second do. Cotton. Twist, No. 5, FEBRUARY, S No. 6 a 10, No. 11 a 20, No. 20 a 30, 1 20 Chocolate, No. 1, No. 2, MARCH. No. 3. q Candles, mould, box dipt. scarce spermaceti, lb. Cheese, American, APRILA Feathers, 6.5 Fish, cod, dry atl. 2 75 retail herrings, Susquehannah, bbl. mackarel, No. 1 a 3 9.1 7 87 shad, trimmed, Flour, superfine, MAY, bbl. fine. 4 50 middlings, 4 25 4 a Flaxseed, rough, cask none. clcaned, bush do lb. do JUNE. Flax. o Hides, dryed, Hogs lard, Leather, soal, 89 1-9 Molasses, Havana, gal. New Orleans, JULY, sugar house, gal. 1 50 Oil, spermaceti. ] 4 PORE, mess or 1st quality, bbl. :8 a 16 a prime $^{2}d$ do. do. 14 a 8dcargo Plaster, iton AUGUST, 1 75 bbl. ground Rice. 1. Spirits, Brandy, French, 4th proof gal. peach, 4th proof 1 25 1 50 1st proof apple, 1 50 Gin, Holland, 1st proof SEPTEMBER, do. 4th proof do. N. England Rum, Jamaica, . 1.50 American, 1st proof 7.5 Whiskey, 1st proof 62 1-2 OCTOBER, Seap, American, white, brown, tio. Sugars, Havana, white, $^{25}$ brown, loaf, NOVEMBER, lb. a lump, 1 .. bu Salt, St. Ubes, 1.5 Liverpool, ground, lh. Shot, all sizes. cwi TOBAUCO, Virginia fat, middlings, DECEMBER, 6 50 do. 5 50 Rappahannock, 7 50 6 50 Kentucky, lh. small twist, manufactured, pound do. TEAS, Bohea, lb. a 100 1821. Souchong. Hyson Skin a 150 JANUARY, Young Hyson, a 150 Imperial, WOOL, Merino, clean, unwashed, crossed, clean, FEBRUARY, unwashed common country, clean, Là unwashed skinner's.

## UNITED STATES EXPORTS.

The following is a brief analysis of the amount of Exports during the last year.

Treusury Department, Dec. 17, 1819.

Sin,—I have the honor to transmit, herewith, a statement of Exports from the United States, during the year ending the 30th of September, 1819, amounting in value to 70,142,521 dolls, viz. In the article of Domestic produce or manufacture,

Foreign.

Entitled to draw back, - 15,801,676 Not entitled to drawback, 3,364,007

19,161,638

Fareign.

Which articles appear to have been exported to the following countries, viz.

Domestic.

To the dominios of Great		
Britain,	\$26,998,038	2,833,701
France	8,100,922	2,933,279
Spain,	- 4,104,371	3,70 ,288
Vetherlands,	2,699,588	2,130,726
Portugal,	- 1,9,0, 44	312,756
Denmark and Norway, -	1,198,233	8-£2,700
Russia, Prussia, Sweden Hause-towns and ports of Germany,	2,617,465	2 <b>,1</b> 39,3 <b>5</b> 5
China,	• 74,896	1,512,076
An other countries, -	- 3,014,082	2,758,032
	\$50,976,838	19,166,683

# Marchires for sale.

IMPORTANT TO

# MILLERS, DISTILLERS AND FARMERS.

# J. Rogers, Pattern Maker,

Of Baitimore, No. 105, High-street, (O. T.) and Joseph Demund, of New-Jersey, have invented a new and most useful machine for breaking the corn with he cob, either in a mill or by a horse power. It will reduce the corn and cob fine enough for beef cattle, with expedition.

When put in a mill, it should run the velocity of about sixty times a minute.

It can be regulated so as to grind either fine or barse, with the same case as mill-stones are for com-

It is an undeniable fact, that there is equally the same quantity of spirits, and of a superior quality, in the same weight of meal, with corn and cobsignound together, as there is in the corn meal ground alone—which saves every fourth bushel of corn; it must be ground fine as other meal is for distillation, which only can be done in a mill, with the assistance of these such mes.

There will be a constant supply of these machines pron hand by John Rogers, in Baltimore; and all iders punctually attended to on the shortest notice of sible. The machines, all ready to put up, will come at the reduced price of 35 dollars.

N. B. It is requested that all orders, addressed to R. may be post paid.

Baltimore, March, 1819.

PRINTED EVERY FRIDAY AT 4 \$ PER ANN.

# FOR JOHN S. SKINNER, EDITOR,

BALTIMORE,

## BY JOSEPH ROBINSON,

At the corner of Market and Belvidere-streets,

Who does every description of Book, Pamphlet and Job

# PRINTINGS

In the best manner and on moderate terms—Orders by postwith proper directions, promptly attended to.

# AMERICAN FARMER.

# Rural Economy, internal improvements, news, prices current.

" O fortunatos nimium sua si bona norint " Agricolas." . . . . VIRG.

Vol. I.

# BALTIMORE, FRIDAY, JANUARY 14, 1820.

Num. 42.

# AGRICULTURAL.

## ANNAPOLIS, January 1st, 1820.

DEAR SIR,-In-pursuance of a resolve of the Agricula large assemblage; composed of officers of Government, members of the General Assembly, and ladies and gentleman from the city, and from various parts of the state - Also, the communication from Dr Joseph B. Muse, on the modus operandi of Plaster of Paris.

H. MAYNADIER, President of the Agricultural Society of Maryland

## PROCEEDINGS

OF THE

# AGRICULTURAL SOCIETY OF MARYLAND.

The Agricultural Society of Maryland, agreeably to the provisions of their constitution, met in the city of Annapolis, on Wednesday, the 15th instant. After the usual business was transacted, the President presented to the Society a communication from Dr Joseph operandi of gypsum, which was read. The Society Republican, to publish in their respective papers Dr. Muse's learned and very ingenious communication

Judges were appointed to examine the articles offered for exhibition, who awarded premiums to the

following persons:

To Mr. Jonathan S. Eastman, for his improved straw cutter. This instrument was so much approved of, that the patent right for Anne Arundel county was purchased by a company of gentlemen present.

To Mr. Arthur P. Jones, of the Eastern Shore of Md, for an instrument, consisting of a plough and harrow united, well calculated for putting in grain on corn ground.

To Mr. Christopher Jackson, for a bull, 2 years old,

of a good size and fine proportion.

To Mrs. James M'Cubbin, for the best woollen car-

To Mrs. Watkins, for a piece of very good carpet-

ing.
To Mrs. Hart, for a fine rug, of good materials and handsome colors.

To Mrs. Scars, for the same.

To Mrs. Frances Fowler, for the same.

To Miss Stalling, for an excellent counterpage, and some fine vest patterns.

To Mrs. Gan brill, for a counterpane, very fine and of handsome figure.

To Miss E. Murdoch, for a down hat, ingeniously made and handsomely decorated.

To Mrs. Eliza Warfield, for the best woollen stack ings and gloves.
To Mrs. Elizabeth Thompson, for a pair of uncom-

mon fine knit cotion stockings.

Mr. Thomas Chase exhibited some very large cauliflowers, from his farm, near Annapolis; one of which weighed 19 lbs. with the leaves, and 7 lbs. when stripped of them.

Some of Wood's patent ploughs, made at the found ry of general John Mason, near Georg-town, were exhibited. These ploughs were highly thought of on external appearances and first impressions, until phi-pages 343, 345.

excellent form of the cast iron mould board.

At two o'clock the society adjourned, and assembled again at 5 o'clock in the evening, for the purpose tural Society of Maryland, at their anniversary meet of hearing an address, delivered by Virgil Maxey, Esq. ing, held on the 15th of December, in the chamber of member of the society, in the Chamber of the House of Delegates, I transmit, for publication of Delegates, agreeably to a request mane by the Soand assented to.

dress delivered before them.

Resolved That the Secretary apply to Mr. Maxcy for permission to publish his address, and if it he obdress to be published for distribution, under the direcnon of the President.

Resolved That the President be requested to trans mit copies of the address to the editors of the Ameri can Farmer, the Maryland Gazette, and the Maryland Republican, for publication in their papers respec-

T. H. CARROLL, Sec'ry.

# ADDRESS, &c.

Gentlemen of the Agricultural Society of Mary'and.

Having been requested to deliver an address at this E. Muse, of Dorchester county. Md. on the modus anniversary meeting, I have thought it best, after a few preliminary remarks upon the relative importance resolved that the President request the editors of the of Agriculture, in comparison with other pursuits, to Maryland, and to an examination of the means, by has now become equally essential to the welfare of the Agricultural class and the general prosperity of the

Political writers have from the beginning, differed with respect to the sources of the wealth of nations, some attributing it to Agriculture, some to commerce, some to manufactures, and others to labour and capi tal employed in all three. The last appears to me to be the true theory; for Agriculture originates, manufacture improves, and commerce gives value by creating demand, while labour and capital stimulate all But however variant opinions may have been or still are with respect to these several hypotheses, all must agree that whatever may be the value impart ed by the labour and ingennity of man to the productions of nature, the earth is the original parent of them all. Agriculture is the art, by which these productions are multiplied, so as to meet the wants of civilized men. Most of these wants are common to all,-to the agriculturist, the manufacturer and the seaman, as well as to the artist, the man of letters and the statesman. As all equally derived their origin from the earth, all are equally dependant upon it for their subsistence and accommodation. However then commerce and manufacture may polish the shaft, or learning and the fine arts may decorate the capital, it is agriculture, which forms the deep and solid base, on which the culumn of civilized society reposes.

Agriculture is an unobtorsive art. It performs its silent labours to retirement and out of the view of the nultitude: On the other hand the arts throng the cities and bustle in the crowd; while commerce, appropriating the products of both, hoists its gaudy flag, spreads its swelling sail, traverses the globe, and hallenges the gaze of merein opposite hemispheres.

Nations, as well as instividuals, are governed by

account of the ease with which the beam might be losophy, by teaching them to think, chables them to raised or lowered, and particularly on account of the trace effects to their true causes and to assign to them their relative importance. Hence commerce, from the display it makes before the eyes of men, was generally considered the first and greatest agent in the production of national wealth, and manufactures were ranked next, whilst modest agriculture, hidden in the privacy of the country, was forgotten or if rememin your useful and widely carculating paper, the address of Virgil Maxcy, Esq delivered to them, and to concluded, the following resolutions were proposed despised. Agriculture therefore in Europe, even half a century ago, formed the occupation almost exclusive-Resolved. That the thanks of this Society be pre- by of the lowest order of the people, without know-sented to Mr. Maxcy, for the able and eloquent adledge to olighten, or capital to enable them to improve. Of later years, however, since Political economy has assumed the form of a science and has caused statesmen to be more sensible of the importance of an tained, to cause two hundred copies of the said adimproved state of agriculture, it has attracted more attention from the better informed and wealthier classes of society, it has excited the inquiry of the I arned and is at length beginning to obtain that de-gree of consideration, which its importance so justly

In England nothing has had a more powerful effect in attracting to it the public notice, than the establishment of agricultural societies. Many patriotic men of rank, fortune, learning and talents gave them their closest attention, and, by their personal example, drew to them the regard and respect of that class of people, who had the means of undertaking improvements upon an enlarged and liberal scale A general emulation was excited amongst the country gentlemen; public opinion became enlightened; the government felt its influence; and, at length listening to the able representations of that patriot farmer, Sir American Farmer, Maryland Gazette, and Maryland invite your attention to a brief view of its condition in John Sinclair, established the British Board of Agriculture and Internal Improvement.-This Board, while which individuals, as well as the Legislature, may it serves as a centre of information to inquiring agrimost effectually contribute to its improvement, which culturists, performs the same office to the government, and points out to it such measures, as are best calculated to promote their prosperity. Under the combined influence of this board, and of the numerous societies in all parts of the country, agriculture has been inspired with new spirit and activity. Men of speculative minds have begun to investigate, statesmen to examine, and political philosophers to analyze, with a deeper scrutiny, the sources of England's power: and, to the utter astonishment of all, it has been ascertained, that wide spread as is her commerce, and extensive as are her manufactures, it is to her agriculture more than to both, she was indebted for the support of her system of public credit; a system whose amazing energy enabled her singly to breast the furious and towering flood of united Europe's rage, and finally to roll back its agitated waves over the head of the potent Prospero, whose magic had raised them!

This fact, extraordinary and surprizing as it may appear, has been proved beyond a doubt by the result of the tax, which was levied indiscriminately upon all classes of the prople having an income of more than £50 sterling per annum.

The proceeds of that tax from the pro-prictors and occupiers of land were \$\&6,433,475\$

The proceeds of it from all other classes, merchants, manufacturers, office-hold \$\( \xi \) \$\( \xi \),021,187 ers, professional men, &c. were only

Less than one half of the amount, received from the agricultural class.

The number of proprietors and occupiers of landswho came within the operation of the income tax, was three times as large as that of all other classes toge-

· Vide Sir John Sinclair's Code of Agriculture,

deal of commercial property escapes direct taxation, prevail and an improving system of cultivation has, we may without fear of error take it for granted that in part, restored the original productiveness of the pay far more than their just proportion of the direct the same degree, of pleasure, with which a wanderer taxes. We may then safely conclude, that at least hads the spots of green on the deserts of the East. three-fourths of the vast revenue of Great Britain is derived, directly or indirectly, from the owners and cuitivators of the soil. And in her darkest hour, when ly a waving country, blest with a soil originally fertile, invasion threatened all her coasts, when thick gather-covered with the noblest forests, and intersected with ing perils appalled the merchant and the fund-holder navigable streams and creeks, falling either into the rier to her foes!

If such then be the relative importance of agriculture and the portion of her population engaged in it in Great Britain, whose commerce and manufactures are so extensive, but whose whole territory is almost And yet what a melancholy prospect does it now exequalled by several of our single states, of how much hibit! The original settlers first cleared a corn field greater consequence is agriculture and the agricultur- in the forest, next a tobacco lot, and cultivated both al class in the United States, whose territory stretch- with successive crops of the same articles, until ther from the Atlantic to the Pacific Ocean? If agriculties or was again had to the forest, and a new corn ture be the nerve of England's power and the source field and a new tobacco lot were cleared. The same of her wealth, and if commerce and manufactures, process was repeated, until almost the whole of this even there, are merely useful hand maids, to distributely favored region was despoiled of its valuable it be in all points of view to our country? And who the greatest blessing, when properly used, ever be shall calculate the limits of its wealth and prosperity, stowed by the inventive powers of man upon the human its grandeur and power, should the people adopt, race, became a most powerful auxiliary in effecting

of the late war, have set a good example for the imi- crop, if drought succeeds; but when it stirs the surtation of their sister states, by enacting laws for the face only the light top soil becomes fluid at a copidirect encouragement of improvement in agriculture, ous or sudden fall of rain, and both soil and water are By the provisions of their acts, a sum of money, pro-precipitated from the hills to the creeks and branches portioned to the amount, that may be raised by an below. Whenever fertility was by these means comagricultural society, in each county, is ordered to be pletely destroyed, the field was thrown out of cult. paid out of the treasury, to be distributed in premiums vation; stunted pines uniformly succeeded to the ocow their origin and progress to the public spirit of linekory, beech and poplar; and wherever a few of the individuals. A circumstance, worthy of notice, which, latter have escaped destruction, they serve, beside while it is gratifying to the friends of the plough, is their dwarfish neighbours, as monuments of the mag at the same time illustrative of the simple habits and nificent bounty of God, in melancholy contrast with manners of our country, is, that citizens of the highest the thoughtless improvidence of man! distinction have not only given the countenance of This gloomy picture is but too faithful a representheir name and character to these useful associations, tation of this interesting portion of our state. 'Tis but have accepted appointments in them, requiring true, there are scattered in different parts of it, enteractive duty and taken a leading part in their manage-nusbandry would do credit to Freder ck and Wash-

from the establishment of such societies and from a they have made, have doubled the produce and value diffusion of correct information on agricultural sub- of their lands, and their efforts have been crowned ration of the condition of agriculturists takes place. jec's, and rural economy than Maryland.

in some other parts of the northern counties of the country in general. These habits must finally reduce state, a good system of husbandry is established and those, who include in them, to poverty, and banish excellent practices prevail; but in the southern parts them from their homes. of the state on either side of the Chesapeake, agriculture languishes in the most wretched condition. On

As in political calculations it is proper to consider the Eastern shore a severe course of cropping, with sturned up to the fertilizing dews and atmosphere of

Nor do the lower counties of the western shore exhibit a more exhibitating prospect This is general-States, nay, of the world, and you will hardly find a spot, where the choicest advantages for successful agriculture have been so bountifully showered by a beneficent Providence, as upon this tract of country throughout its almost unlimited territory, an im-this scene of desolation. When the plough sinks proved and colightened system of cultivation? Massachusetts and New York, since the termination and preserves the moisture for the nourishment of the under its direction | In several other states, societies cupation o land, originally covered by the finest oak,

No state in the union would derive greater henefit ington counties. But though the improvements, which with the most distinguished success, their example In the Conococheague and Monocacy vallies, and has had but little effect in reforming the habits of the

And must this beautiful region be deserted? are its inhabitants doomed to join in the current of wes tern emigration, and leave abodes endeared to them + For the New York act-See No 20, page 155, of by a thousand tinder recollections? And must the hospitable fires of the Eastern shore be extinguished Shall that social, warm hearted and generous people be compelled to seek new and more fertile lands in the recoding homes of their childhood?

sum stimulate the sleeping energies of a soil newly

all men, as spending the amount of their income; it out a judicious rotation, has reduced a soil, originally Heaven: - Let clover and other improving crops reis also fair to consider them as paying indirect taxes fertile, to a state of sterility. If here and there you store to the exhausted earth the vegetable matter inin proportion to their expenditure. And as a vast come to a farm or neighborhood, where better habits dispensable to fertility:- Let the rich soil, washed from the hills into the low grounds and branches, be hauled to the farm-yard and mixed with the offal of the agricultural class, in relation to their property tand, your eye is regaled with the same sort, tho' not the cattle :- Let the sca-ware, which every tide drives upon the shores of the Chesapeake Bay, and lime so asily procured from its locahaustible banks of marine shells, be spread upon the fallows and mixed with the soil. But above all, let agricultural societies be formed in every county in the state. These, when conducted with zeal, are most powerful agents for the introduction of the good practices I have enumerated, and in the malst of London, where but among the yeoman great Chesapeake or Potomac, and alfording the earlier the dissemination of information, derived from exry of the country were found the fearless hearts and seest and cheapest means of transporting all its properience; for the overthow of errors and the estatoil strung arms, that presented an impenetrable bar duce to market. Look over the map of the United bishment of useful truths; for the excitement and maintenance of a generous emulation among agriculturists; for inspiring a strong desire for the disunction and reward, which excellence in their art will confer :- in a word, for adding to the all pervading impulse of interest, the ennobling stimulus of ambition. The planter and the farmer, in common with all other human beings, acknowledge the dominion of this powerful principle: but the circumstances of their lives bring it but seldom into operation. The Liwyer, the prysician, the manufacturer and the mechanic, exercise their professions in the presence of witnesses; their respective skill becomes the subject of comparison in the city or neighborhood, where they bute, improve, convert into other forms, or consume wood and timber Shallow cultivation came in and of it side; and they immediately feel the result of that its products, of how much greater importance must this system of destruction by fire and axe. The plough, comparison in the increase or diminution of their profits as well as reputation. On the contrary, the agriculturist has rarely a witness of lins labours to excite his pride, or amend his practice by the communication of useful knowledge. This is the great and predominant cause of the slow progress of improvement in usbandiy and rural Economy. Agricultural associions are the most obvious as well as most effectual means of removing this cause. They bring to light he merit of good cultivators, and, while they reward the deserving, they instruct and stimulate the ignorant By means of cattle shows, ploughing matches, and exhibitions of produce, stock, and implements of busbandry, they bring together those, who are intersted in agriculture, for purposes connected with their pursuits. Information of various practices is communicated from one to another; conflicting opinions excite discussion, inquiry and experiment; the knowiedge of each becomes common to all, and a general lesire of improvement is encouraged and diffused --The prudence, which deters the cultivator from adopting new practices, which may result in embarrassment, no longer prevents their reception when the success of others has established their safety and ntility. This success is made known at such meetings and invites imitation. New and more profitable modes of culture are thus introduced, and a general melio-

> If these reasons be not sufficient to satisfy every one of the utility of Agricultural Societies, let me call your attention to the example of such nations, as have encouraged and multiplied them. The best and most intelligent writers upon agriculture in France, Germany, England and Scotland, attribute the rapid improvement of those countries to the efforts and influence of such associations. There is now scarcely a district of any extent or importance in Great Britain, which has not its agricultural society. Such associations first diffused a spirit, that led to the establishment of the British Board of agriculture and internal improvement; and that in return has caused the formation of more agricultural societies, than ever before existed in any nation in any age. This Board collects in a focus all the rays of knowledge, emanating from these numerous bodies, while each of them in return receives from it the concentrated intellig nee every individual in the kingdom, desirous of acquiring it. Agriculture in that commercial and manufac. ming country is now gaining its share of the public ttention and regard, which have hitherto been besand is attaining the rank and aignity, to which it is

the American Farmer -Editor.

In evidence of this fact, may be cited, amongst many other honourable examples, the addresses of Mr. be compelled to seek new and more fertile lands in Machson, late President of the United States, now President of the Agricultural Society of Albemarle cast many a "longing, lingering look behind" upon county, in Virgin a :- Of Col. Pickering, once Secretary of War, afterwards Secretary of State, and now I trust not. I confidently hope, that the spirit of im President of an Agricultural Society in Massachu-provement, which has totally changed the face of the setts :-Of General Davie, formerly minister to France, country and the condition of the people in other parts now President of the Agricultural Society of South of the state, will extend to them. An enlightened of all the others, and brings it within the reach of Carolina: And of Major General Brown, who is now system of agriculture is all that is wanting. The at the head of our army, and whose late speech before means of improvement are at hand on both shores an agricultural society in the state of New York, of Let the marl beds, which abound on the Chesapeake which he is Vice President, is distinguished by a be explored and spread upon the fields; - Let th vigour and energy of thought and expression, at once plough be driven deeper into their surface :- Let Gyr characteristic of his mind and profession.

tion, and its improvement be deemed of less importioncast, that looked to distant political as well as agriculture : will lay the foundation of a permanent tion, and its improvement be deemed of less importance in this great oggiculture? Enterprize commercial results, no state in the Union would have prosperity, by restoring fertility to the districts now seems to be the presiding genius of our people. His giant foot-prints are visible in every part of our broad waters of the Potowmac approach nearer to streams, with a magical rapidity, settled that intersect the Western Country, than any other the country and built up the cities of the Atlantic, he river of the United States. To remove the obstacles pullation of many parts of the state; will thereby inches transcended the Alleghany; he has levelled the to its navigation would probably have been the first crease our numbers, and of course our relative pullities. has transcended the Anegnany; he has revened the horizontal family; and what is of forests of the vast extent on this side of the Missis object that would have attracted the attention of the call weight in the great national family; and what is of sippi; he has planted there villages and populous for the next would probe at least equal consequence, will elevate the character towns; he has crossed that monarch river of the west bly have been the completion of the best communication of our state, will add dignity to its name, and challenge the property of the west that the confidence of the property of the west that the property of the property of the west that the property of the property of the west that the property of the property of the west that the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the property of the proper and now explores the interminable regions of the Missian by land, between the West and our great Com-lenge the respect and appliance of the Union. Should souri. Shall be become the destroying demon or the mercial Capital. These objects effected, Washington such a course of measures be heartly adopted and beneficent deity of the country, he has uncovered to and Baltimore would have become the great marts of vigorously pursued, a new era will open upon Marythe sun? Shall he scourge the fertile soil, till steri- Western trade. lity and its attendant poverty succeed, or shall he, by We might moreover have expected to see the wasters, hereitizens will feel a conscious reide in her characteristics a judicious system of cultivation, preserve forever its ters of the Eastern Branch, connected by a canal racter, and the lofty patriotic state feeling, which will original productiveness i

those parts of this vast empire, which are still unex- might then have had a choice of the three markets, rity and happiness. hausted. But a question of still nearer interest to Hultimore, Washington and Philadelphia. How great Maryland forces itself on the mind. How shall fer- a stimulus this would have been to our agriculture, is tility be restored to its worn out soil and depopula-imore easily imagined than told tion be prevented? Some of the means depending. The General Government, however, have declined upon individual exertions, and the efforts of agriculturing into this career of Internal Improvement, and tural societies. I have already attempted to point out illiave thereby devolved that important duty upon the but much, in aid of them, may be done by the go-several states in their separate capacities.

vernment of the state.

It is essential to the prosperity of the cultivators of and several other states, have engaged in it with a the suil, that they should have access to morkets spirit, highly honourable to themselves, and worthy where such prices may be obtained, as will repay past the imitation of all the othersthis object, the utility of good roads, bridges, rad-ples? Shall she witness, unmoved, the gigantick ef-Sin, ways, and cannis, and the removal of obstructions in forts of New York, now cutting through her territorivers and creeks, is too obvious to require a single ry a canal of nearly three hundred miles, which by open-

remark to illustrate it.

Great undertakings of this sort, where several invigorate her agriculture, and, by the junction of ing to the society, being persuaded that the states are concerned and where rival interests may excite jealousies and present obstacles, seem properly commercial city n part at least of that western trade, to belong to the general government. Had the plan which proper exertions might retain to ours? Shall luable kind of information, than the most ingeof that profound and eloquent statesman, who presides she be insensible to the example set her, still nearer over the war department, for the establishment of a home, by her neighbor Virginia, whose Board of Pub- nious commentaries. fund for internal improvements succeeded, many of the works are not only planning canals, and removing. In the summer of 1817, I fallowed eight those now present might have lived to see national obstacles to navigation from her rivers and creeks, for acres of poor, high land, known in this part of Highways and national Canals, intersecting our great the benefit of the country adjacent to them, but are the country by the denomination of Barrens, country in all important directions, facilitating communication between all its parts, and forming those
practicability of a water communication with the west /
bonds of connexion, that have now, since the
Shall she too, rob us of a portion of the Western
application of steam to the purposes of naviga trade? And can we look with indifference upon the
with the most favorable seasons. Having but tion, become more necessary than ever to the pre-strenuous exertions of our jealous rival, Pennsylva-the small quantity of manure that was made servation of the union. However desirable to this nia, to accomplish the same object? In a competition upon the farm, and an adjoining plantation, becountry independence of foreign nations for necessfor the western trade, nature has given us the advantive on the time of carting out the contents of saries, conveniencies, or even luxuries may be, all tage, in the geographical position of our territory, the farm yard in the spring, and the scason of must acknowledge, that a mutual dependence between and if we lose it, it will be entirely owing to our own our different states for the promotion of their prosper listless negligence. Will it be said, that we have rity is, the strongest tie that can bind them together contributed large sums of money for making the Po-The course of commerce, which has heretofore made towmse navigable; that we have incorporated several termined it was safest to err, rather upon the the Mantic cities the market of the productions of canal and road companies, that we have devoted the botter mined it was safest to err, rather upon the West, and the source from which it derived sup-lous, which might have been demanded for a renewal of side of giving it too much, than too little extending amount between them. Should steam navigation on the great national western road, and pledged the problem of the Mississippi ever be able to supply the vast regions, ceeds of two annual State Lotteries, as a fund for plough 28½ yards by 17½, putting a load into the from which it gathers its waters, with the products of making internal improvements, for the promotion of centre of each square, which gives precisely 12 foreign commerce, at a cheaper rate than they can be literature and science, and the establishment of hear-loads to the acre: the manure was carted out foreign commerce, at a cheaper rate than they can be literature and science, and the establishment of bene- loads to the acre; the manure was carted out afforded by the Atlantic cities across the mountains, volent institutions. All these measures certainly me- just in time to plough it in before seeding—the and should New Orleans or some other city, on that rit approbation; but more ought to be done. An am- cart used carried between 25 and 30 bushels onriver, become the great mart of their agricultural ple fund, immediately productive, ought to be created by at a load, the manure was better rotted than produce, this ligament is burst asunder,—and a pa-triot might well tremble at the agritation of any ques-mately cunnected with the character, dignity and tion, involving a real or even an apparent conflict of prosperity of the state, interest between the people residing on the different. May we not be allowe sides of the Alleghany. In such an event, that great the General Assembly, many of whose members have was commenced on the 5th of October, and firidge, instead of being what it has been emphatically honoured our meeting this evening by their presence, pished the 7th—put in with harrows on the sestyled the "back bone of the United States, which no will be directed to the accomplishment of these intehuman strength can break, no sword can sever," resting objects? By adopting such measures as will might become the harrier between two hostile em-effectually attain them, they will give themselves an pires. To prevent so calamitous a result, no means incomessible title to the fasting gratitude of an en-fluce was twenty bushels to the acre-the wheat are so well adapted as the establishment of roads and lightened prople; for such measures, aided by the was of the kind known with us under the name canals. And who, in this inventive age, shall despair influence, example and intelligence of such societies of the Yellow Bearded. of seeing the day when steam, applied to carriages up throughout the state, as you, gentlemen, have formed on rail ways, shall perform prodigies on land, that will rival those, which it has already exhibited on the

New York, Virginia, South Carolina, Tennessee,

ing a vast extent of fertile country to a market, will

\* Vide an able pamphlet, published last year by a ate member of the executive council, entitled " Ro Had the General Government adopted the proposed marks on the intercourse with the western country."

intrinsically entitled. Shall it be held in less estime plan of Internal Improvement, the offspring of a wise in this, its ancient capital, will revive its drooping land; she will take a high stand among her sister We might moreover have expected to see the wa- states, her citizens will feel a conscious fittle in her chaiginal productiveness?

with the waters of the Patapsco and the Chesapeake, ensue. will carry her, through a long course of liberThis is a question of the greatest magnitude to ioined to the Delaware. The greater part of the state ty and honour, to the farthest goal of wealth, prospe-

FOR THE AMERICAN FARMER.

PROCEEDINGS OF THE AGRICULTUDAL SOCIETY OF ALBEMARLE.

# ON MANURING FOR WHEAT. No. 6.

The following account of a manuring for wheat upon fallows, I have thought worth givstances likely to influence results, a more va-

In the summer of 1817, I fallowed eight it was chiefly of the strongest kinds, the greait usually is at this age, from being placed in a stercorary, which kept it moist with the muck-May we not be altowed to hope, that the wisdom of water that settled at its bottom—the seeding cond ploughing.

Seeded one bushel to the acre-and the pro-

J. H. COCKE,

P. MINOR, Esq. Sec'y of the Agri'l. Society of Albemarle. PROM THE AGRICULTURAL MUSEUM.

F've Minutes Reflection on Sheep.

This valuable animal has been much neglect ed, and little understood in our part of the them be put into the yearing padduck-To se-weated at from four to five months old, at that country, Virginia and Maryland, where I have parate the ewes about to year, and to keep them age they can shift for themselves; and time only known it. The introduction of the Meil-separate from the flock for a few days after should be given to the ewes to recruit, before nas will, it is to be haped, do good by, at least veaning, is best at all times; in cold weather, they are put to propagate. As the season otherawakening the attention of the community to absolutely requisite. the helter care of one of the hest stocks we passess. I do not mean here to speak of the rela-lone of them is with difficulty restrained from tive fineness of wood, but to drop a few hints as following the flock. If the ewes at this season is an old soldier of those days, says it brings to the rearing of that estimable material. This are all left in the common pasture, when the good luck. I do not suffer my ewe lumbs to go one only be done by the due cultivation of the flock moves, a ewe that may have just dropped to the ram until they are in their second year. soil, on which it is propagated—the back of the la lamb, and particularly a first lamb, is very apt sheep.

or five years, infection and death by wholesale.

serve fine sheep and good wool.

the world.

sons while they live.

they can feed with industry and vigor.

February; hy this time the winter is broken, and he put each in one of the pens ander the shed, every day looks to milder weather. Earl, on a little dry straw, and there kept with the lambs are of advantage, and with care, at this lamb till it is two or three days old. in lambs, there is neglect. With the double those pens for a few days, will put all to rights. lambs, there may be readily raised, every year Particular attention should be paid to the bags more lambs than there are ewes-To secure this of the ewes-and if found to swell and harden. care, let it be remembered, that "the eye of the is they will semetimes do, from a great flow of master is the most sure." At this interesting milk, a little before or after the lamb comes. perind he should see his flock, at least once : day-and the man who attends his sheep, and day, and brought to by a soft hand. It sometimes ticularly early and late, during the time of without being able to touch a single drop. yeaning. Let there be prepared a small lot or Instances of this have come within my own paddock, near the common pen, and shelters, knowledge. Care should be taken to keep the That, although these attempts are sustained under In the paddock, let there be a shed or cover tails of the lumbs clean at the vent for a few the plausible pretext of "promoting National Industrials of some kind to keep off rain and snow, under days after birth, as they are apt about that time try," they are calculated, (we will not say in design, which for a parcel of little page 5 or 6 less careed at the control of the con which fix a purcel of little pens 5 or 6 feet square to get curked there, from the glutinous nature but certainly in effect ) to produce a tax highly impoand three feet high, no matter how rough, and in of the first excrements—I would recommend little must nature, partial in its operation, and oppressive in its effects: a tax, in fact, to be levied principally on the great body of Agriculturists, who constituted ewes will be enough, for the pure cut off within two or three inches of the root—tute a large majority of the whole American people,

days more or less. By having noted whon the before given. This operation may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and most important principles of political may be performed the soundest and rams were put into the flock, it may be known at eight days old, if mild weather, or as soon to be incontrovertibly true:—that, as the interests of when to expect the first lambs. Let the ewest as the trost is over: at the same time the mark when to expect the first lambs. Let the ewes as the trost is over; at the same time the mark dealers and consumers necessarily conflict with each he marrowly observed from this time, and as on the ear may be put on. As to the castra- other, the first always aiming to marrow, whilst the

to run after them, and leave her young to freeze I have been myself, for years, in common or to starve. Again, in the midst of a flock, it with my neighbours, guilty of manifold omis- often happens that a ewe, during the first day or Virginia Agricultural Society sions and neglects on this score. Having non Itwo, by the crowding of others, and the frein some measure, corrected the procedure on quent change of position, gets confused and my own farm, I owe it to them to give in my doubtful as to her own lamb-and presently experience. In these states, with hat few ex | mistakes and disumns it. It is surprising to see ceptions, sheep have been considered as a stock what degree of cold a young lamb will bear, To the Congress of the United States : able to shift for itself, to do without care, and and how thrifty it becomes, if passed safely without food, except what it picks from the through the first forty-eight hours; during which fields, as well in winter as in summer; hence, time, and most particularly for the first twelve every year, poverty and disease arising from hours, they are liable if exposed to wet and poverty; every year a loss of lambs, and a mi |cold, and if not licked and caressed by the ewo serable pittance of dry woul half fallen off, course- to be frozen or starved to death. It is in this ple to petition and remonstrate, either individually, or quent on poverty and disease; and every four way, that nine tenths of the lambs lost do die

In the yeaning paddock, each ewe need not The following are the only three simple rules remain more than seven or eight days after Nurse your lambs when they first come into and put in at the right time. Thus it will not for relocious and even memorable revolution. be crowded, and those that are there can the Support your sheep in good heart at all sea-more readily receive the requisite care from the attendant. In open weather no care is necessa-And do not suffer them to live longer than by to the ewes in this paddock, but to give them access to the shed, and to feed them as the they should be carefully drawn, once or twice a

pose of confining a cive and lamb occasionally. in all for cleanliness—and as to the eyes there and who are the chief consumers of all foreign imports. A ewe goes twenty-one weeks, two or three are additional reasons, one of which has been

their hags spring, and indicate the approach offtion, unless in very cold or very hot weather, n birth, within two or three days, (to permit it is safe at any time, in skilful hands, from the which to be easily observed, as well as for age of eight days to three months, and the cleanliness, their fails should be all short) let sooner the more safe-The lambs should be wise suits well, I make my lambs set up for In-The sheep is a foolish timid creature; any dependence on the 4th July, in remembrance of our great national wenning-My overseer, who

(To be continued.)

REMONSTRANCE OF THE

OF FREDERICKSBURG.

Bead in Congress, January 3d, 1320, and referred to the COMMITTER ON COMMERCE.

The remonstrance of the Virginia Agricultural Sq. ciety of Prodericksburg, against the attempts, now making by our Domestic Manufacturers and their riends, to increase the duties upon Foreign goods, wares, and merchandize, respectfully represents:

That it is the indisputable right of every free peocollectively, not only against grievances actually inflicted, but against such also, as are either seriously

threatened or meditated.

That hostility, resulting from true republican prinnecessary to be observed, to give and to pre | yearing, and consequently nu mute than seven ciples, to partial taxation, exclusive privileges, and or eight days altogether, if carefully observed monopolies, created by law, was the primary cause of

That, although most of as are only the descendants of those patriots who achieved that revolution by the layish expenditure of their treasure and their blood: vet, that we inherit enough of their spirit to feel equal version to similar oppressions; at the same time, that we confidently trust, neither we, nor our sons The breeders should be put together, so that flock. If falling weather, or snow on the after us, will ever be found backward or reluctant in the lambs may begin to drop about the 10th of ground, the ewes on the eve of yearing, should offering up at the shrine of national good and national the shed, promotion and preservation may obviously and neces-t with the sarily require. But we have been taught to believe, If a ewe that a perental government—a government founded season, even ninety-five in an hundred may be should not be fond of her lamb, or not own it, upon the immutable and sacred principles of truth, saved. Where more than five per cent, is lost as it is called, confinement with it in one of justice, and liberty; if she required sacrifices at all, would make them such as should operate equally upon every member of the community.

That we view with great concern, both nationally and individually, certain late attempts on the part of various descriptions of domestic manufacturers, to induce your honorable body to increase the duties upon imports; already so high, as to amount, upon many articles, nearly to a prohibition. The increased cost who must be trusty and handy, should visit them happens that for want of notice to this sample upon some of these, may truly be designated a tax at short intervals, throughout the day, and par. fact, the lamb starves and dies in sight of plenty, upon knowledge, it not a bounty to ignorance; such, for example, as the duty upon books in foreign languages, and upon philosophical, mathematical, surgical, and chemical instruments.

That such a tax would be a flugrant violation of

standy endeavor to enlarge competition; by which placards, of parliaments, princes, and states, for re enlargement alone, extravagant prices and exorbitant gulating, directing, or restraining trade, have, we profits are prevented. It is the duty of every wise and think, been either political blumlers, or jobs obtained to point out to our readers, as not yet sufficiently competition as free and open as possible.

vernment be equalized among the various orders and views of a policy which you are so importunately classes of anciety, the prosperity and happiness of urged to adopt; but upon which we should have said which depend, not upon immunities, privileges, and nothing, having due confidence both in your willing-lable to its strength, by a late act of parliament upon monopolies, granted to one class or order at the ex-ness and ability to protect the great landed interests vinegar, and is sent out to purchasers with excise pence of another; but upon the unfettered exercise of of our country, had we not been apprehensive, that permits, expressing the strength and that the duty pends of the country directed and approach wis leave might be construed into consent, if all like how and a latery directed and approach wis leave might be construed into consent, if all like how and the construction of excise-others, pays a regular duty agree-which have a support to the consent. tal-nt, skill, and in lustry, directed and employed in silence might possibly be construed into consent, if all has been paid t this gives to purchasers every requiwhatever manner, and upon whatsoever objects of pur- who are attached to those interests had forborne to site security. The quality of this acid has been expublic good: for so to use your own rights as not to we take this occasion to say, that we are meanable of Covernment Victualling Office; and by Dr. Chambers, injure the rights of others, is not less the dictate of feeling any thing like enmity towards either manotac- of Dover-street, for the East India Company; and it sommon sense and common honesty, than it is a car- turers, or any other useful description of our fellow is pronounced to be pure acctous soid, perfectly free dinal maxim of all legitimate government.

That National Industry is best promoted by leaving

the state will permit.

mand for their labors.

be imposed, not for the emalument of any one portion of society at the expence of the rest, but for the sup-

port of government alone.

That either to exclude Foreign Manufactures, or to tax them very heavily, under a notion of improving those of domestic fabric, lessens the profits of agriculthe form of an import duty; and at the same time secures to him the power of practising upon the community the double imposition of deteriorating his gnods, and selling them at a higher price; b-cause that competition which constitutes the only security for skill, industry, and moderate prices, is either en tirely removed, or so limited as not to be felt.

"That all free trade, of whatever description, must be a mutual benefit to the parties engaged in it," notwithstunding, the profits arising therefrom may be somewhat unequally divided: because, by free trade alone, can supply and demand (the two circumstances upon which trade of every kind depends) be kept

nearly equal to each other.

"That, instead of struggling against the dictates of reason and nature, and madly attempting to produ . every thing at home, countries should study to direc their labors to those departments of industry for which their situation and curcumstances are best udapted."

"That the use of capital should be left, as much as possible, to the care of those to whom it belongs, because they will be most likely to discover in what line before Congress."-Extract from the minutes. it can be employed to the greatest advantage"

And that the best regulated and happiest communities are those wherein all the various trades, profes sions, and callings, enjoy equal rights, and contribute equally to the necessary support of their common government; but that if any one should be thought to copy of a lirmonstrance, which has been adopted by have superior claims to the fostering care of the Na. that Society, with a request that you will lay the same I now send you the results. tional Legislature, it should be "the tillers of the before the Congress of the United States. earth, the fountain head of all wealth, of all power, and of all prosperity."

The sagacious and patriotic Franklio has said, and To the Hon. PRILITE P. BARBOUR, was believe he never uttered a better or wiser remark,

latter, who form the majority of every nation, as con- "that most of the statutes or acts, edicts, arrets, and

Your petitioners have thus freely, but respectfully, That in this way alone, can the benefits of good go- endeavored to represent to your Honorable Body, their Chelsea, of one uniform strength of fifty degrees by estizens; but heartily wish them all the success to from sulphuric and all other mineral acids, and from which their skirl and industry may entitle them, in mucilaginous, earthy and metallic impurities. It is us, "into dust and ashes."

All which is respectfully submitted. Signed, by order of the meeting,

JAMES M. GARNETT, President.

WM. F. GRAT, Secretary.

At a Meting of the V aginis Admicultural Socia- useful. TY. of Fredericksburg, convened at the Furmer's Hotel, in the town of Fredericksburg, on the 29th December, 1319, by a special cull of the President: -"A Remonstrance, addressed to the Congress of the

United States against the proposed imposition of adlitional duties on the importation of foreign goods, itier consideration, it was

" Resolved, That the said Remonstrance be adopted

as expressing the sentiments of this Society

" Resolved, That the said Remonstrance be signed by the President and Secretary of the Society, and transmitted to the Honorable Purrit P. Banauun, with a request that he will cause the same to be laid

WM F. GRAY, Secretary.

PRIDITIONS BORD, January 1, 1820. Sta: In pursuance of an order of the Agricultural Society of Fredericksburg, I herewith transmit you is

With much respect, Your ob't serv't. W. F. GRAY.

House of Representatives, Washington City. Imado use of a composition of one part of quick

From the London Monthly Magazine, October, 1819. ·VINEGAR FROM WOOD.

This new and useful article of commerce we wish just government to secure the consumers against both by artful men, for private advantage, under pretence known, and but lately brought to great perfections exorbitant profits and extravagant prices, by leaving of public good." tersia, belonging to Dr. Bollman, 139, Sloane-street; the new excise autometer. It is made under the inspection of excise-officers, pays a regular duty agreesuit each individual may select for himself; provided, speak, when so clamorously and powerfully assailed annined by many emment chemists, for individual inalways, that such object be not incompatible with the To guard against the possibility of misapprehension, formation; and by Dr. Hume, of Long Acre, for the every member of society free, to apply his labor and whatsoever way applied; provided always, that such therefore, when diluted perfectly wholesome with food, and knowledge according to his own chace, exempt application be not made at our risk, and continued at and may be used for all the purposes of vinegar with from all restraints, but such as the public good refrom all restraints, but such as the public good refrom all restraints, but such as the public good refrom all restraints, but such as the public good refrom all restraints, but such as the public good refrom all restraints, but such as the public good refrom all restraints, but such as the public good refrom all restraints, but such as the public good refrom all restraints. quires; and burthened with so tax but such as shall prefer whatever they may manufacture, at any time vinegar dealers, dyers, calico-printers, picklers of that they will make the price and the quality the same fish, &c. this concentrated article will save considerable be both impartial, and as moderate as the exigencies of that they will make the price and the quality the same fish, &c. this concentrated article will save considerable. with the quality and price of similar articles of for- ble expense in freight and carriage, as it occupies six late will permit.

That, according to the natural progress of society eign fabric. To give more for any article simply hear or seven times less bulk than common or distilled in every country favorably situated for agriculture, cause it is made at home, may sunt the feelings of vinegar; and by applying directly to the maker, it the class of Manufacturers is the last to spring up; political enthusiasm, but it can never promote the in will be sent to them at any place, and reguarly supbut that it will necessarily do so, as soon as either the terests either of individuals or of nations. To buy as plied, at a very moderate price; and also to large matural or artificial wants of the people create a decheap as you can, no matter where, and to sell as traders and consumers of this article, the great prodear, is the maxim which should regulate the com- fit now made by its intermediate dealers will be saved. That any legislative interference, to force either merce of both 1 for, if competition he left free, neither The acid of the above strength admits of being dithis or any other class into existence by the strong can be exorbitant in their demands. He ask no tax luted with seven waters, or mixed, one part of acid arm of power, exercised in levying taxes to support upon manufacturers for our benefit; neither do ace de- with seven parts of water, which will reduce it to the forced class, 'contrary to the wishes and interests sire any thing of Government to enable us to cultivate the strength of common distilled vinegar : it is then of the other members of the community, is not only the soil, as profitably as we could wish, but to leave well qualified for pickling vegetables and fish; the of the other members of the community, is found to be preserved longer bad policy, but oppression; because taxes of any kind has free, so far as it depends on them, to carry our pro-latter, particularly, is found to be preserved longer to be rightfully levied, should be equal; and should ducts to the best market we can find and to purchase with this vinegar, and to eat firmer and better, than be imposed, not for the emolument of any one portion what we want in return, on the best terms that we with any other. This acid is bright and colourless as can, either at home or abroad. We will ever support water ; but it readily takes any colour or flavour, and the government of our choice in all just and rightful when coloured and flavoured, to give it a fruit taste, undertakings, both with our fortunes and our lives; At the establishment, it makes an excellent vinegar but we will never voluntarily contribute to maintain for table use, when diluted with five or six waters, either manufacturers, or any other class of citizens by and then its colour is take white wine: it has not the the payment of uniqual and partial taxes t by award-inalt flavour, but it is superior to it in taste, with this those or compete table, the public revenue, either by augthe payment of uniqual and partial taxes; by award-inalt flavour, but it is superior to it in taste, with the
menting the number of smugglers, or by enabling the
domestic manufacturer to pocket that sum which
them in the enjoyment of oppressive monopolies, which time, in any climate, without losing its strength, or otherwise would go into the Public Treasury under are ultimately to grand both us and our children after becoming ropy and thick, or morthery, as it is gener-At sea it is particularly useful for the ally termed. scurvy ( and for al) incidical purposes, it answers the uses of the best distilled vinegar, and makes the arrmonia acciala in great perfection. Also for surgical purposes, where often a more concentrated vinegar is required than is found in the shops, it is emmently لاجتبح سيطانها

#### FHOM THE PLOUGH BOY,

The following extract from the American Journal of Science, conducted by Professor Silwares, and merchandize, was submitted and read, and, liman, may be useful to the Canal Cummissions ers, as well as to the others employed on our great canals.

> "ON A METHOD OF AUGMENTING THE FORCE OF GUNPOWDER.

> Extract of a letter to the Editor, from col. G. Gibbs.

> "I employed last year a man in blowing rocks, and having seen an account of a method if substituting a portion of quick lime for a part of the gunpowder usually employed, I was induced to make a number of experiments upon ;

> " Bunswick Farms, Oct. 19, 1817. I certify that, having heen employed by Col. Gibhs in blasting rocks on his farm, I, by his orders,

ly found the same charge answer equally as well prevalent about the times of the equinoxes. with the like quantity of gunpowder. I made: upwards of fifty blasts in this manner, as well sun's rays should always prevent a fire from the method of constructing the Dam and gates, as several hundred in the usual way, and can blazing up into a flame, and sometimes quite to hold and draw off the water?—I have for therefore depend upon the accuracy of this state-extinguish it, especially when passing through many years, paid strict attention to my would ment. I found, however when the powder lime a glass window? was mixed the day before, that the effect was day it is mixed.

"This preparation was generally made in the morning, put in a hottle and well corked, to the soul's immortality?

prevent the access of the external air."

poses to be owing to the desiccation of the gun-ham and his offspring ? powder by the lime. The altraction of moisture by gunpawder is stated by Rees, to be upwards was entirely the pattern, or mirror of humility, I have to throw out some which is cleared.—In of 16 per ct. "I presume, therefore," says Col. and the "Prince of Peace," how then are we 1817, I planted 5 pecks of Shell-bark Hickory; Gibbs, " that the lime, which in its caustic state to recoucile his own words with this, when he mice and squirrels did not leave me more than has a great affinity to water, attracts a portion says, "Think not that I am come to send peace I in 80—this last spring, made a 2nd trial; I of it from the powder, and leaves it in a state on earth; I come not to send peace but a planted 6 pecks of chesnuts carefully rolled in of dryness best fitted for inflammation. But if sword in Matthew, 10th chapter, 34th verse. tar, and separated by plaster; about 700 are the lime were to remain too long mixed with XII.—In the ninth chapter of Genesis, mengrowing. Squirrels again. I have now three the lime were to remain too long mixed with the tien is made of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have been dead of the beautiful which we have a supplier of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which we have the dead of the beautiful which the lime were to remain too long mixed with Air.—In the limit that the cloud, which we hashels of Chesnuts, barreled up with alternate the gunpowder, it would probably attach the tion is made of the bow in the cloud, which we hashels of Chesnuts, barreled up with alternate the gunpowder, it would probably attach the tion is made of the bow, then appointed layers of dry sand. These shall be planted in water of chrystallization of the nitre, and ac- understand to be the rain-bow, then appointed layers of dry sand. cording to Count Rumford's idea, destroy a by God as a token of his covenant, that the February and March, in boxes 6 inches deep, great part of its power." "It is well known world should not again be overwhelmed by a settled in the ground,—in the spring of 1821 (as that after a few discharges a cannon becomes deluge. Shall we thence infer that there was I am at present only in my 62d year) I will heated, and the range is much greater as well as no rain-bow before the flood ? the recoil. The charge of powder is therefore reduced about one quarter, to produce the original effects." Col. Gibbs then states his opinion, that the increased effect of the powder is caused by its desiccation by the heat of the cannon. I have lately seen in a newspaper a method of increasing the force of gunpowder by adding to it a portion of dry saw dust. This operation probably must be accounted for on Col. Gibb's pringood effect.

From a new publication, entitled the Annual Philosophical Magazine, Number 1-Printed in New-York by J. Seymour, we extract the following queries-The Book-binder, as if to disgust and prejudice the

publick against the work in the outset, has deranged the pages as much as possible, and inserted a moderate portion of the work twice .- Edit. Amer. Far.

#### QUERIES.

1.-Clouds are sometimes seen moving in one direction, while others, either above or below them, are proceeding in an apposite direction. Required the reason ?

Will-with a-wisp, or Jack-with-a-lantern?

III .- Has the wind any effect in retarding or further experiment. accelerating the velocity of sound? And if so, what is it?

IV .- What is the most probable cause of that phenomenon in nature, called a water spout?

V .- It is found by experience, that gypsum. or plaster of Paris, loses its fertilizing properties on Long-Island, and the sea-coast. Query, the reason? It is, on the contrary, affirmed by some, that if the farmer, on, or near the sea coast, would apply four or five times the usual quantity, it would then prove beneficial. Can this be true?

VI .- By Mr. R. Tagart, Now-York .- Re-|culture, &c. - Editor.

lime and two parts of guupowder, and uniform [quired the reason why storms are generally -it would be valuable on the sands of both our

VII .- What reason can be given why the

# ----Occasional Extracts.

FROM CORRESPONDENTS.

TO THE EDITOR OF THE AMERICAN FARMER.

MR SKINNER,

derful, for in the article of rain we stand thus : -27th of August, a clever rain, 25th of Sept. a slight shower, 29th a good rain, 17th of Nov. a slight rain.

I have long desired to obtain a few seed of the true Rhubarb (Rheum Palmatum.\*)

Could you not obtain from Spain, the Rope Grass (Meleca Rutuns,) called by the Spaniards, Mr. Dobbin, Sparta (Stipæ Tenecissimæ), grows on sand hills,

\* The Rheum Palmatum or true rhubarb, is a native of Thibet mountains in Tartary, and was introduced in ed: tending to delineate the many advantages which England about 60 years since—where the chief obsta- would be derived from a Botanic Institution, and al-England about 60 years since—where the chief obsta-would be derived from a Botanic Institution, and alcle, in obtaining rhubarb, of a quality equal to that though I know that our impressions on such occasions ignis fatuus, commonly known by the name of imported, is said to consist in the difficulty of coring are generally accompanied with vain imaginations the root—but this difficulty was in 1810 nearly overyet in this case, was a proper Rotanist to come forward,
come, and no doubt will be entirely surmounted by and by the exercise of his skill, accompanied with pub-

It is said that at the time above mentioned, 200,000 been exported.

The plant arrives at its most perfect state in 6 or 7 one pound of rhuburb.

thubarb plants are set out at 5 or 6 feet distance and some roots have been known in England to weigh 70

In 1798, Mr. Jones of Fish-street-hill, London, obtained the premium of 30 guineas, for having raised and planted out 5000 plants of true rhubarb -If any subscriber wishes, we will give further account of its

shores, and in the Carolinas and Georgia. -What can you tell us about fish ponds, as to lands, and now pride myself upon a luxuriant VIII .- Why do aromatic flowers emit algrowth of young trees, for much of which I feel diminished. It should always be used the same greater scent in warm weather, when wet with myself indebted to the Crows.—My Yellow day it is mixed.

T. POMEROY. a shower of rain than when they are dry? and White Pines, which at same paried will IX .- Required, the most convincing proof of furnish masts and spars for our navy, have been danted by my own hands and are very flourish-X .- Had the heathen world any glimmering ing ; but in the nut kinds, I have been unfortu-The rationale of the process Col. Gibbs sup- of light of a Redeemer, as was given to Abra- nate. In order to give appearance to this estate, I straighten the crooked and irregular XI .- As our Lord and Saviour, Jesus Christ, clearings, and if I have to clear some fresh land, transplant with the dibble us we plant cabbages.

I have cut the enclosed from an old newspaper. Can you not rouse the Baltimoreans to follow the example of New-York, Philadelphia and Charleston (S. C.)? Your climate gives a decided advantage. But why not a great Botanic Garden at Washington, one acre for each

My Cork tree, 5 years from the acorn, is more I send to you 16 Turnips, two each of eight than 8 feet high; an English live oak, and a pesciples. Perhaps other substances which would varieties, not on account of their size, but to tachico nut tree, flourish equal to any tree of abserb moisture from gunpowder would have a show a perfect character of each variety, for I the forests. I conclude by assuring you, that I have of them more than twice as large. How am greatly pleased with your paper, which I they obtained the size they have is truly won-hope may prove as profitable to you, as it is aseful to our country.

> Respectfully, your Ob't. servant,

F.

TFOR THE TELEGRAPHE.

Permit inc to express through the medium of your useful paper, the infinite satisfaction which has been produced by the repeated hints, recently publishlic or private support, I have no doubt, but that in time, the contemplated garden would be so far perfect pounds sterling, was annually paid for imported rhu-ed, that the patronizers would realize what would barb; but a great part of this must-certainly have surpass even the must sanguine expectation.—I therefore wish, for the innocent amusement of the present, and instruction of the future generations -that a genyears, when every 5 pounds of green root wilt give tieman who has been taught Botany would tender the one pound of rhuburb.

public his services—for I preceive the subject is becoming unceasingly the topic of the day, particularly amongst those, who have had an opportunity of scienlific improvement.

Lam sir,

Your most obedient servant,

March 30, 1805.

r.

not be distinguished from Tokay 50 years old. Jefforts in this way, however feeble they may be raise its top ten or twelve feet high; and he is

### RECEIPT FOR AMERICAN TOKAY.

Let it ferment, carefully brushing off the froth correct or fallacious as it comes out of the bung hole. fermentation ceases, draw it off and add as much try, and have analised the cobs of corn, and seven feet in length. honey as will give it strength enough to bear anothe small yellow pumpkin; the results are, that egg; return it to the barrel which should be first corn cubs contain one-twentieth their weight of washed clean.—It will now undergo a second nutritive matter, and pumpking one-twentyformentation, which must be treated as the first, lifth their weight of matter nutritive to animals white spruce heer, proceed as follows: to every and when that ceases, add half a gill of French It my unalysis be accurate, it will then appear gallon of water take a pound and a half of hoor peach brandy, for every gallon. Bung it that farmers, generally, are in the habit of ney, and half a pound of fine starch. The tight and so let it remain until the March fol throwing away an article, (cobs) preferable, as starch, however, previously to its being blendlowing, when in a calm, clear and dry day, it food for stock, to common turnips, and nearly ed with the honey, liquor, or syrrup, must be should be bottled.

becoming acquainted with the nature of the soils plying the lime to land. A SUBSCRIBER. he has to cultivate, it enables the farmer to ascertain the quantity of nutritive matter residing in what he grows. He is thus, without the process of actual feeding, capable of determining claim upon those of our readers, who have it in their what is the best food for his stock, and he is at power to answer whatever he asks; and we trust they once constituted judge of what grains, grasses, will not hesitate to reciprocate his good offices. It roots. &c. is most to his advantage to cultivate, is by this mutual interchange of opinions, and free without running the risk of disappointment, communication of what experience has taught us, that which he cannot avoid, if he be governed by most opinions promulgated on agriculture, the rated, and our social comforts are promoted.—Edit. authors of which are too often influenced by prejudices contracted in various ways, which blind them to the merits or demerits of what they oppose or advocate. But I am not insensible of the advantages derived from works on sures, mentions an implement called from its agriculture, and I would not be understood, that use an Eradicator, on my recommendation a Agricultural Chemistry should supercede at friend has used it, and informs me that it antention to what has been and will be written on swers well; it must save a great deal of labour husbandry, but that it should answer as a test of in grubbing up roots, besides doing the work this paper, but it was found impracticable to the correctness of the practice wished to be in much more effectually .- On the other side, I culcated by authors. The interests of agricul-|send you the description of it, for publication. ture have been much advanced by many who have written, and by none more than by the Is a very large and strong three pronged fork, been aware of the clumsy style in which it was worthy and philanthropick sage of Belmont, which as a lever, by the assistance of a block, executed, it would not have been suffered to Judge Peters is incapable of writing any thing is able to tear up any thing. The higness of it disfigure our columns.—It is but matter of juson farming, which will not benefit the agricul- is so much more than a dung fork, which it most tree to Mr. Throup, the young gentleman who tural community, and we have very much to re-resembles, that it seems improper to call it by usually engraves for the Farmer, to say, that gret, that the medium through which his com-such a name; wherefore, I have given it another. It was not done by him—it was furnished by the munications reach us, should deem it best to It is to be thus constructed; the handle must be keep us so long ignorant of them, and other va- a long thick beam, its length fifteen or sixteen lumble papers. In this respect the Agricultural feet, and its thickness, such as will keep it firm Society of Albemarle Va. has given a laudable against a great deal of force, the tines or prongs. example, by the use they have determined to should be twenty inches long, notched at the make of your valuable paper.

Agriculturists possess too little enterprise and disinterestedness—they are willing that a few individuals should be at the labur and ex-being carefully fastened on, the person who 25 to \$1 50 Potators, per do. 75 cis.—Turnirs, do-pense of all improvements in the science. They works it must fasten a rape six or eight feet of the country of the coun ference of an attentive perusai.

brethren of the plough some remarks on the va- his head; then with good strokes of the beetle

-1 have drank of it 8 years old, which could tick use and for market. I shall continue my the pole, near where the times are; this will investigate for themselves, by which they can force. Those who know what the effect of the A barrel of good new Cider from the press. confirm or refute my observations, as they are lever is, will be sensible no root can keep its

> When the I have acquired a little smattering of chemis-firm, and in some kinds will draw out fibres of equal to Swedish turning

more evident; independent of the advantage of burning them, as well as the best mode of ap-beer.

The very useful hints and information, which have been given by a "Subscriber," and the benevolent apprit which manifestly prompts him, give him a -that our errors are rectified, our aufferings amelio-

Virginia, December 12th. Gabriel Plat in his discovery of hidden trea-

#### THE ERADICATOR,

sides, and a little leaning upwards; and they or parsimeny; while those whose zeal and be-block of wood, and a heavy wooden beetle or lish the results, are too seldum awarded the deference of an attentive pages?

N. E. per 100 bunches, \$7-Porm per ton cwt \$7-Live Cattle, \$6 to \$6 50-Max, per ton \$18-Straw, do. \$11-Dountry Oats, 50 cts.—From, from the wagons, \$5 25 Whisher, from do. Itsh the results, are too seldum awarded the deference of an attentive pages? into the ground, so that they go under the ron. In a former communication, I offered my and the top of the pole be somewhat higher than lue of the Ruta Baga, which has claimed much he must drive it well in, till the tines are quite for the Husbandman.

1.5. Lenclose you a receipt for Cyder Winelof the cattention, as in article both for domes-fix the ground: he is then to lay the block under I hope they may indure others more capable to then to lay hold of the rope and pull with all his place against this; it will tear up the most

How to make Spruce Wine.

For this, which is only a superiour sort of reduced to a transparent jelly, by boiling it I should be gratified if some of your cor- with a part of the water parposely preserved; respondents would inform me, the cost of oys- a quarter of a pound of essence of spruce may Mr. Skinnen,-The necessity to husband-ter-shells per bushel-the difference in bulk ho used to five gallons of water-and the same men of a knowledge of what may be called before and after burning-the quantity of fuel method may be pursued in working, fining, and Agricultural Chemistry, is every day becoming necessary, and the most economical method of hottling, as directed above for the white spruce

> Spruce is a wholesome and pleasant drink to those who are used to it, and persons soon become habituated; it contains a vast quantity of fixed air, which is extremely bracing, and the use of this liquor is, particularly to be recommended to such as are troubled with scurbutic humours, or have the gravel. It is chiefly used in the summer months.

#### **THIS** FARMER.

BALTIMORE, FRIDAY, JANUARY 14, 1820.

Doctor Muse's memoir, on the modus operandi of Plaster of Paris, read hefore the Agricultural Society at Annapolis, and ordered to be printed in the American Farmer, will be presented, if

possible in our next number.

The 5th number on Hedging, from friend Kirk of Delaware, ought to have appeared in get the engraving done in time; speaking of engraving, we owe an apology to our readers fur the one exhibited in our last.—If we had

Present Prices of Country Produce in this Market. Actual sales-23 hogsheads Calvert and A. Arundel Tonacco, sold the present week for \$8 to 10-Ecos, per doz. 25 to 31 cts.—Chickens, per doz. \$3 50 - HUTTER, 37 1.3 cts - Tunkers, 75 cts. to S1 25must be joined to a strong shoulder of iron, with GLESG, 50 to 75 cts.—VEAL, per quarter S! 25 to S1 proper lastenings for the end of the pole, this 5-Do per lb. 6 to 8 cts.—Ourous, per bushel S1

cluded by the ice, we can give no information to the rmer on this head .- The partial retail for immerate consumption in town, of the stock on hand previous to the setting in of the ice, would be no guide

# TREELEGE CALBURY AT BALTIMORE:

Garefully Revised and Corrected every Thursday.

Onrefully Revised and Corrected	lever	y Thu	rsday
(RIII 1 E.S.	, Ea.	RETAIL	PRICE
BEEF, Northern mess -	հերի	17	i
No 1		15 15 50	
Bacon,	lb.	16	
Butter, Ferkin		18 93	
Coffee, first quality,		27	2
Gotton, Twist, No. 5,		27	
Twist, No. 5, No. 6 α 10, -		48 46	,
No. 11 a 20,		55	8
No. 20 a 30, -		80 88	
Chocolate, No. 1, No. 2,	1	28	
No. 8,		25	
Candles, mould,	Fog	20 18	
dipt, spermaceti, -			scarc
Cheese, American,	lb.	10	1
Feathers, Rish, cod, dry	qti	8 50	
herrings, Susquehonnah,	bbl.	£ 75	retail
mackarel, No. 1 a 3		9 7 75	12
shad, trimmed, - Plour, superfine,		5 50	6
fice,	bbl.	5	5 5
middlings,		4,50	5 4 2
Flaxseed, rough,		none.	
cleaned,	bush		
Flax, Hides, dryed,	Ib.	do 12	1
Hogs lard,		12	1
Leather, soal,	gal.	25 62 1-2	3
New Orleans,	5	75	
sugar house, = -	,	1 50	
Oil, spermaceti, POltK, mess or 1st quality, prime 2d do.	gal. bbl.	1 50 18 a	20
prime 2d do		16 n	17
cargo 3d do.	lon	14 4	15
ground	obl.	1 75	
Rice, Spinits, Brandy, French, 4th proof	lb.	2	3
peach, 4th proof		1 25	1 5
åpple, lst proof Gin, Holland, lst proof		75 1 50	
do. 4th proof			_
do. N. England Rum, Jamaica,		50) 1 50	2 51
American, 1st procf		75	-
Whiskey, 1st proof	lь.	50 18	62 1-
Scap, American, white, do. brown, -	.	9	_
Sugers, Havana, white,		15	10
brown, loaf,		12 25	15
lump	lb.	20	a 2
Salt, St. Ubes, Liverpool, ground,	p11 •	70) 75)	1
Shot, all sizes, -	lb.	12	
TOBACCO, Virginia fat, do. middlings,	CIET	5 50	
Rappahannock,		5	5 50
Kontucky, - amall twist, manufactured,	lb.	6 50 25	7 50 • 3
pound do		50	71
TEAS, Bohea, Southong,	lb.	68 75	a 100
Hyson Skin • -		75	a 100
Young Hyson,		1 25	a 150
Imperial, WOOL, Merino, clean,		80	
unscashed, •		40 85	
croseed, clean, uoweshed, -		35	
common country, clean,		37 25	
unsvashed harries harries	ī.	99	
		•	

Dictionary of the Veterinary Art. [Continued from No. 31, p. 245.]

Casting. A term used for throwing down; Es a horse or bullock. The mode of casting a horse a plate in the fourth volume of the author's 20| ormeipal operations of farriery are likewise described; but the method commonly practised 28 For throwing a bullock is somewhat different.

Take a long rope, double it, and tie a knot 50 rbout a yard from the end, so as to leave a how which being put on, the two ends are to be rought between the fore-legs and round the hind pasterns, then back again, and through the 18 drawing up the ropes quickly; so that his hind-Ollegs may be brought up towards his chest, he is inay he safely performed.

CATAPLASM, or Poultion. This application. aggravate than remove the disease, for which it has been employed. In the accidents which usually necur to horses, there is generally diffi culty found in securing poultices, without making so much pressure by the bandages employed as to cause swelling, and rather defeat than proall such necasions, it is better to trust to a freon the form of fomentation; such as a decoction of therbs, or things commonly employed for the purpose. One thing should always he observed In the pplication of pooltices; that is, the mehod by which they are tastened; perhaps there is nothing hetter for the purpose in diseases of most commonly required, than a worsted stockfing, kept up by list or flannel bandage, &c.

An incurable disease of the CATABACT quite blind. Some reasons, however, may be ral of cataract; but I fear that any attempt of the kind would generally prove fruitless.

I cannot, however, dismiss this article withnut observing, that the partial cataract some times met with, in which there are only one or more small opaque spots in the pupil, so situated into will be treated of under the head Influenza. as not to prevent materially the admission as fight to the retina, is not of so much consequence ;

Further Extracts from a Compendious prox it is often supposed to oc. As the eve is so aportant an organ in the horse, so liable to inenry, and when diseased renders him so useless, we may say dangerous, to the rider the subject

will be more amply treated of in another part CATARRH, This is more familiarly known has been minutely described and illustrated by hy the term cold, and is a disease which hapnens more frequently perhaps than any other-Treatise on Veterinary Medicine, where all the It is generally caused by expaning a horse to a current of air, or to a cold wind or rain; and is more likely to be produced if the animal has heen previously heated by exercise, or accustumed to a warm stable and warm clothing. The must common symptoms are cough, dullness of so of sufficient size to go round the bullock's neck, the eyes, which are sometimes inflamed and watery, and want of appetite either for food or water. In mure severe cases the throat hecomes sore, so as to render swallowing difficult; how. By standing in front of the animal, and and sometimes the glands under the jaws, as well as those under the ears, are swullen, These symptoms are commonly succeeded by a easily thrown down; while in this situation, the discharge of matter from the postrils, which is. ropes are to be secured, and then any operation generally beneficial. In slight cases there is scarcely any alteration in the pulse or appetite: hut sometimes there is a considerable degree of when designed to promote suppuration in a swel- fever. In the first volume of my Farriery I 50 ling, or remove inflammation occasioned by a have recommended early bleeding, and observeblow, is hest made by mixing together three ed, that if it is delayed until a discharge from parts of fine bran and one part of linseed meal; the nostrils has taken place it seldom proves pouring a sufficient quantity of holling water heneficial. I have here however to remark that upon the mixture, to bring it to the consistence subsequent experience has proved to me, that 15 of a thin paste; and confining it to the part in whenever the disease is severe, the cough very is such a way, that no swelling shall be caused by irruphlesome, and especially if the pulse is unthe bandages. A poultice should always he re-usually quick, bleeding will offord much relief, newed once in twelve hours; for when it ap however considerable the discharge from the proaches towards dryness, it tends rather to nostrils may be; and that when bleeding is employed at an early period of the complaint, it should not be done paringly, unless there be such a degree of weakness as to render it evidently improper, which is very seldom the case: for hy taking off four or five quarts of blood at once we save much trouble, and render the dismote the intention for which they are used : on lease mild and of short duration. Should the symptoms not abate in two or three days, the quent application of warm water, or any thing operation is to be repeated. If the bowels are lopen, the only medicine necessary, is the fever powder or ball twice a day, composed of

Nitre, one nunce. Emetic tartar, one dram and a half, or two drams.

But it must be observed, that whenever there is the lower parts of the limbs, where they are lany degree of soreness of the throat, much harm may be done by endcavouring te give either a ball or drench, particularly the latter. In such frases the medicine should be put into the horse's horse's eyes, consisting of an opacity, either mosh; but if it appears to prevent him from total or partial, of a part which is naturally eating it, let the medicine he unitted. (See transparent. I call this disease incarable; he-quinay.) If the horse is costive, or even it the o cause though we can, as is often done in the hu-dung is at all hard, give a laxative. The head o man subject, remove it by an operation, such an hould be steamed with hot bran mashes, and imperfection of sight would remain as to render kept warm by means of a hood; the legs also the horse more dangerous to ride than if he were I should be kept warm by rubbing and flanuel banlages. The horse must be treated rather careo adduced for occasionally attempting the remo tully after the disease appears to have been in a reat measure removed, or it may return, and a chronic cough will probably be the consequence n such indiscretion. Catarrh is sometimes epilemic, that is, appears to attack horses in every part of the country without any known cause:

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# AMERICAN FARMER.

# PTRAL ECONOMY. INTERNAL IMPROVMENTS, NEWS, PRICES CURRENT.

" O fortunates nimiu u sua si bona norint " Agricolas." . . . . Ving.

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# BALITIMORE, FRIDAY, JANUARY 21, 1820.

Num. 43.

# AGRICULTURAL.

FOR THE AMERICAN FARMER,

# ON HEDGING....No. 5.

BY CALEB KIRK, OF DELAWARE. [continued from No. 26, page 204.]

an inch in diameter near the root, and from that in six or seven years after they are planted, but il one stroke should not prove sufficient a seleave as much of the wood uncut as to afford on that head. the sap to flow into the top, and yet to benil easy into an inclined position of about forty-five air and the sun's rays also, as the health and vigour of the plashing is much promoted thereby. If there should be more wood in the bedge by planting too close or from any other cause, it must be cut away, leaving no more, than what is really necessary to form the basis of a good and lasting live fence. (see the drawing below.) One of my errors was suffering too much brush. wood to be crowded into my first laid hedges, been in that practice for the immediate making bility. a tence of such materials as he had to do with, having had experience in the business.

ducing dead wood to fill every vacancy, as well trimming the superfluous branches off the body as crowding too much of that which was living, becomes more dense and impenetrable. I had much of it to remove in places where a About five years past, I adopted the summer want of health demonstrated the present evil. trimming about the middle of 6th month, (June) After this was done the remaining part became and found it much easier to accomplish while more healthy, but remains thin and never will the shoot was in a tender state, and have reguovercome the injury-there seems to be no in-larly done the trimming in that and the followclination to put out shoots from the old wood in ing month ever since, finding the labour much

I find it is best to trim off the branches, espe. cutting at that season. to an inch and a half; if well attended to in cially the large ones, though not very close to if neglected they may require double that pe-in an upright form, as well as those from the well as usual. riod. It may he observed that no advantage is stumps shooting up through the plashing, interentting and wounding the top or body of the stalk is top crowded, the shoots rising from the stump fuse and spread through the whole body of the will soon recover any injury received in the new will evade the thicket, and push out in a lateral hedge, and add strength to every remaining cessary work of plashing, which is done by cut-direction, endeavouring to gain the benefit of part. ting the body of each stalk with a hedge knife sun and air, and rise on the outside where they or proning hook, bending the stalk with one are injurious instead of beneficial; by secloding

I have been more particular on this points cond or third may be applied, being careful to having seen errors in others, as well as my own,

degrees elevation, from the base or bank and stakes are to be provided about four feet and a which it stands, one third or one fourth of uncut wood is sufficient to supply sap to the plashing, which must bend easy, otherwise it would in
the provided about four feet and a in the Delaware thorn, they seldom afford bond in the Delaware thorn, they seldom afford to be shoots out of the plash, except where the top end is cut off the suckers will rise.

To obtain a regular distribution of shoots cline to rise out of the proper degree of inch-the placking accessionally at the work properties from the placking, we must be mindful to give nation. Much depends on this circumstance in in a straight line two feet and a half or three clined plane, as before observed, by that means forming a good and uniformhedge—the plashing feet distant from each other, as the figure A; they are apt to rise on the body of the plash, as to keep the part laid directly over the stumps and produces a cluster at that point; and if laid for reasons before given, (the shouts rising immediately through the plash,) those stakes are encouraged to follow that direction, and will bound in their place by wattles or poles, pre-produce suckers from the stump only, leaving pared of alder or willow, or any thing that will the plash without sufficient nourishment to nenot in future make useful tumber, as their use is only temporary, until the hedge becomes set. It will be readily understand the hedge becomes the set of the readily understand the hedge becomes the set of the readily understand the hedge becomes the set of the set of the set of the head of the set of the s

bom hving and dead-brush-wood, such as was rope; if rightly done it steadies the head of the formity is thereby promoted, becoming nealthy cut away, in some places where too thick and stakes, and keeps them in a direct line, and in all its parts. After that object is obtained, filled in where too thin; in order to make a pre-serves the purpose of holding straggling shoots, all that is necessary is the keeping it in proper sent tence I was induced to suffer it done in this that may be directed under its confinement, and limits by trianging. way from the recommendation of my hedger, confines the top of the hedge, holding it steady

I readtly gave his judgment the preference, he examined, and any shoot that inclines to leave the vacancies, and seven years old before it was But my observations to two or three years there is a vacant spot to receive it, then it ought that has been laid seven years, and annually

Having preferred plashing to any other mode those vacancies—which would have put forth easier performed, and no had effect on the that I had seen made use of in training a hadge, shoots when newly laid, if no obstruction had hedges, though warned by some to the contrary, began the process when the stalks were about been present.

The present season having been excessively their previous growth, they will attain that size the body of the stalk-it shoots young sprouts dry and warm, yet I have not discovered the more abundantly from the plashing, which rise least injury—they have held their foliage as

My conclusion has been that by cutting when gained by plashing before a good root is formed, locks the whole together, holding the plashing the sap is in full flow, and taking away the small for that is the future support and basis of the su in their place as cross bars, and forms a kind of shoots that were carrying off a considerable perstructure by having a good strong root, the lattice work. On the contrary, if the plashing portion for their support, that portion must dif-

The foregoing remarks will apply to either kind of thorn as it regards the treatment of hand in the direction it is to be laid, at same the plashing from the benefit of sun and air, the them, but the Virginia kind has advantages time by a stroke with the knife with the other, sap no longer inclines to the plashing, but flows though not so rugged in appearance as the Deabout four inches from the surface of the ground, freely into the suckers on the outside. and give that regularity and uniformity to the hedge. But what is very important is their inclination to send out an abundance of shoots or Previous to laying a hedge, a quantity of from the plash also; the latter is not the case suckers, when cut not only from the stamp, but stakes are to be provided about four feet and a in the Delaware thorn, they seldom afford

To obtain a regular distribution of shoots those stakes are driven through the plashing, so if too much elevated the sap flows to the head,

It will be readily understood that the more general we can direct the flow of sap through the This binding has the appearance of a twisted whole body of the hedge, the strength and uni-

who was from the west of England, and had for trimming ontil its own growth gives it sta- view of a section of newly plashed hedge, divest-The drawing represented by the letter A is a ed of foliage, after having formed the first shoots The next year after being laid it should be from the old stalks, making the first effort to fill the right direction should be cut away, unless cut. The letter Brepresents a section of one more, convinced me of the impropriety of intro- to be introduced into such vacuum; by frequently trimined, being in full foliage at the time the

drawing was taken. The former showing too with a common grass scythe, as the mowers gradually and necessarily developed, in the course of skeleton of a hedge, that may be useful to drawere cutting the grass included in the field. Hinvestigation, to the final truth desired. The annals monstrate the subject in that stage of its pro found by applying the scytho to the hedge it was of every art and science record the truth of this senmonstrate the subject in that stage of its pro found by applying the scytho to the nedge it was liment; the best interests of agriculture require its gress to maturity. It represents an end view of an expeditious mode, though rather unhandy to adoption, and call for a free and liberal discussion of the section B, shewing a correct view of the strike upwards, but a little practice overcame agricultural questions, as well as a communication of shape, which I preferred for the forming a hedge the difficulty. the most impenetrable at the bottom; those After viewing those specimens of hedges pro-branches of science, have accompanied their progress, views are clevated on a bank from a limit to luced by the foregoing mode of management and part passes, to their present high state of improvement: cighteen inches high, which was formed from a given term, it will be information to some, I action of plaster upon vegetation, I will first cursorirepeated dressing, as they required fresh earth ave no doubt, sufficient to determine their ly examine the most current and popular hypotheses, to cover the grass about the roots, which retards choice, whether a dead or a living fence is to and suggest their defects; and secondly, propose a their growth in a young state remarkably, if not e preferred. kept down. This elevation gives the hedge of much more forbiding appearance to ungoverna vithout having advantage of occular demonble animals.

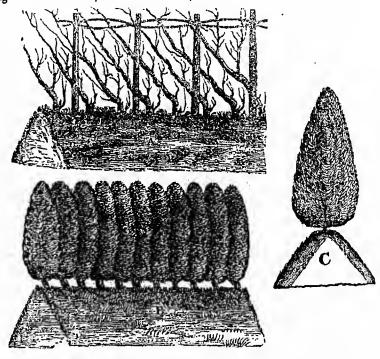
knife, about eighteen inches long with a lmoked alculation on the subject, as I had made up point used with one hand, or with any other by determination prefering a live fence. sharp light tool that may best suit the operator. trimming made on those specimens were done

I made the choice upon an imaginary view tration, and without any idea of the compa-The trimming may be done with a hedge ative expense, or even attempting to make any

There is now some data to form an estimate making the stroke unwards rather than down inon, and the subject is of such a nature as to wards; the root being secure in the ground, in require a series of years to gain the desired ob- tural Society, who has so emmently contributed to

prevalence of a sentiment adverse to theory and hypo-

That practice and experience teaching useful facts,



FOR THE AMERICAN PARMER.

# by a set of elementary principles may be collected and

No. 3.

On the modue operandi of Pluster of Paris.

CAMBRIDGE, Nov. 20, 1819.

DEAR Sin,—In comphance with the request, which resulted to us, and a priori, to anticipate the commercating procedure, as the supraction of a project, predicated upon those settled principles with confidence; these elementary principles using a affair of the and for summon at hermal society, overloombined, candidate is to a system, and this system with a confidence, founded more of the luman mind, we are hable to theorise falcely, by the defence, founded more of the luman mind, we are hable to theorise falcely, by either, and the doctrine founded in the error, is that the rathry, which it is contiled; in this yet we find in this, no sound argument against theory afternoons.

The power of attracting moisture from the atmost the latest farmers, to enquires of this nature, from the lead as ultimately, by those very errors, which are

Ec00000000

thesis

facts; which means combined, if we look to other

In my attempt to enquire into the rationale of the new one which will explain most of the phenomena which have been noticed, in the use of plaster

The most popular hypotheses of the modus operand i plaster arc.

1st. That its efficacy is derived from the septie powers of the compound (the sulphate of time)

2nd. That its sulphuric acid produces this effect, 3d. Its power of attracting moisture from the air, assigned as the cause.

4th. The hypothesis of professor Davy.

The learned president of the Philadelphia Agricult will not give way before the stroke, as it would ject, yet I have a confidence in believing it can the stock of agricultural knowledge in this country, in making the stroke downwards. The last of assertained with much correctness. tions in that department of science, as well as in others, maintains the opinion. that gypsum is septic, and that its fe tilizing powers are derived partly from this property, and partly from its sulphuric acid. In the memous of that society, vol. 3, p. 459, to prove that it is septic, he applied at the same time, to two beaps of unrotted vegetable substances, different proportions of plaster; that, to which he applied the least, rotted; while the other continued sound, from which he inferred that an overcharge was antiseptic, and that a small quantity was septic; but in the same page he says "no more of the plaster will act than the materials accessary to co-operate with it, require: the balance (i. e I suppose the overcharge) remains in its original state of composition, there and uscless, 15 here is an error in fact, or in reasoning, so obvious as to-need no comment

. He, (Judge Peters,) denies the accuracy of professor Davy's experiments, which go to prove the antisrptic powers of gypaum; but us Dr. Darwin also, has long since proved, that sulphuric seid, in most of its combinations, will not only resist putrefiction, but restore a substance, in which it has actually commenced, we must insist on the professor's correctness, and that Judge Peters has erred in assigning to it, septic powers.

Dr. Darwin, in his Phytologia, p 206, explaining the phenomenon of sulphuric acid combined with clay, counteracting the process of putrefaction says, "this, it may effect by uniting with the amnomia generated in putrefaction, or by preventing its production." Then similar afficities will produce the same effect, when the gypsum, or sulphate of lime, is brought into contact with putrescible substances; and though it may be said, that ammonia has less afflaity than lime for sulphuric as well as other acids, this is the case only in a state of great purity; for we find in Fourcroy's Chemistry, vol. 2, p. 159. "cretaccous aminoniacal salt. likewise decomposes selenite by double affinity; while the vitriolic acid seizes the volatile \*\*\* PROCEEDINGS OF THE ADMICULTURAL THE STREET OF MARYILLAND THE WORLD STREET OF MARYILLAND THE STREET OF MARYILLAND THE STREET OF MARYILLAND THE STREET OF generated in this process, is constantly present with stablished, will coable us to derive more knowledge the ammonia, to act upon the base of the plaster, and from the same experience, for thus we may refer to enable the sulphuric acid to seize the ammonia, and their proper causes, those phenomens of vegetation thus, by double affinity, produce the same effect, in saily presented to us, and a priori, to autospate the counteracting purrescence, as the sulphate of clay (by counteracting purrescence, as the sulphate of clay (by the instances quoted.) is known to produce by the

The opinions of Sir H. Davy are not satisfactory on the subject, os they are on others which he has attempted; he supposes that gypsum, alkalis, and waring the supposes that gypsum, alkalis, and waring the supposes that gypsum, alkalis, and waring the supposes that gypsum, alkalis, and waring the constances, which act in small quantities, and which are thought by many physiologists to be of the same use in the vegetable economy, that conditions are produced in a shorter time, by increasing like heart, which was capable of decomposing the plaster; as for the same use in the vegetable economy, that conditions are stimulants are, in the animal, are actually a ed in the latter, though in a longer time, by exposure to the vegetable fibre, which is the same result, it is ordinary temperature; to the open are to the vegetable fibre, which is a longer time, by exposure to the vegetable fibre, which is a longer time, by exposure to the vegetable fibre, which is a longer time, by exposure to the vegetable fibre, which is a longer time, by exposure to the vegetable fibre, which is a longer time, by exposure to the vegetable fibre, which is a longer time, by exposure to the vegetable fibre, which is a longer time, by exposure to the vegetable fibre, which is a longer time, by exposure to the vegetable fibre, which is analogous to the bony matter in animals : he says that calcareous earths, for carbonic acid, would, by expo-forming a sulphate of alumina, though not chemicalhe has found gypsum in its natural state, undecompos, sure to the air, render them carbonates, and not phosely injurious, yet might operate mechanically, to the the has found gypsum in its natural state, unaccomposi-ed, in all those plants which seem nost benefitted by phates; but it is known, that when combined injury of vegetables, by rendering the earth hard and it, and that he has uniformly found it in soil, when with the fixed sends as in plaster, that strong affinity impervous to their tender fixes; this might happen, the application of it had not been advantageous; and is confined as the proved by Bergisan's table were there present any solvent of plaster. It is said had not found it, on the strictes, analysis, in those, of affinities, where the application of it was beneficial.

It is very perceptible, that there most be an error in the professor's facts, or reasoning; because its presence in a soil, where he found its application not ad vantageous, should have operated as powerfully as its phosphoric. application to soils, in which it was absent ; yet we application to solls, in which it was absent; yet we first by daily experience, that some most barron solls become productive by the use of it; but those in which there was already a sufficiency, and on which there was already a sufficiency, and on which it will not operate, should be, (according to the productive with those which there was already a sufficiency, and on which it will not operate, should be, (according to the productive with those which there was already a sufficiency, and on which it will not operate, should be, (according to the productive with those which the subject of the residues of burned plants, "an account of this fact, and which it was marked analysis, such as has not bullerto been made, as the place, where the plaster has nost fully successfully substant in the subject of the su

the avowed principles of such learned authorities. I esserts "that the insoluble part of vegetable ashes is not universally true; and the same cause must univeram conscious of the rick of incurring the charge of phosphate of hime;" and Dr. Darwin, who says that sally produce the same effect. presumption; but equally conscious of the cambour it has been detected in every kind of vegetable suband liberarity of those whom I address, and of the stance, in various proportions, supposes "that on utility of a free, unrestrained discussion, leading to great source of this elementary substance in vegetanew experiments, and these, in turn, to new discus- bles, is calcureous earth it from such authorities, and sion, in the progress and diffusion of science, I ven others which if necessary, might be adduced, it may ture to offer the following proposition, act.
That the chief, if not the whole cause of the effica-

result of three enquiries, set.

" Does gypsum become phosphorie? "Does phosphorus exist in vegetables? "Do phosphates promote vegetation?

If phasphorus is found uniformly in certain vegetables, it may be presumed to be essential to their con-the farmer (" this bone dust is chiefly phosphore acid favour phosphorescence; and that by the addition of stitution, and if gypsum become phosphoric, it may readily impart to them this essential matter; and that it does, facts known to us all, authorise me to assert; and to this property, may the chief, if not the whole value; in all the most powerful manures, which the of its fertilizing virtues be referred.

peats the same assertion and expresses a belief, that

Fourcroy says (in his elements of chemistry, vol. 2, p. 157,) that selenite (plaster) placed on a hot iron, becomes phosphoric, a property, which is common to all "calcareous salts." If then calcareous earths containing fixed acids, (i. e. onicareous salts) become readily poorphoric under such cocumstances, it is rea sonable to deduce by analogy, the same result from its ticles of plaster might be more or less subdivided mers? and thereby exposed to the united action of heat and in a and thereby exposed to the united action of heat and in answer to such queries, I may say that similar air, the resential agents of calcimation; it would be obligated, too, by many peculiarities of the soil on composition and changes in the nature and qualities of the soil on composition and changes in the nature and qualities and to receive the soil of the soil on composition and changes in the nature and qualities and the receiver the soil of the soil on composition and changes in the nature and qualities and the receiver the soil of the soil on composition and changes in the nature and qualities are the soil of the soil on composition and changes in the nature and qualities are the soil of the soil on composition and changes in the nature and qualities are the soil of the soil on composition and changes in the nature and qualities are the soil of the soil on composition and changes in the nature and qualities are the soil of the soil on composition and changes in the nature and qualities are the soil of the soil on composition and changes in the nature and qualities are the soil of the soil

On this point, experiments seem to be conclusive process of calcinating, on which, as we have seen by promote the operation of plaster, are known; in that its adhesive attraction for humidity is very constantionities quoted, depends its phosphorascence: its detable, but that when combined with it, its cohe-action would be promoted highly, by previously spreadsion is so strong as to make it difficult of separation, ling on the field even the slightest dressing of hot, reand consequently uscless in this respect to vegetation cent dung; and by spreading the plaster on the sur- fensive to vegetation; the salts of iron are lightly the opinions of Sir II. Davy are not satisfactory on face, rather than by turning it in; for thus, the sgents permittions; hence the application of plaster to terri-

From the above considerations it is reasonable to believe that plaster when ground and spread on earth which is dry and warm and containing no substance capable of resisting the process, will readily become

Secondly That phosphorus does exist in vegetables, fessir's theory,) equally productive with those which is not university were improved by its addition; which is not universally true, and therefore, incompetent to solve the phenomenon of its operation.

In hazarding an hypothesis radically variant from its connexion of spiculture and chemistry, page 25 ferrilizing powers, is totally fallacious, because it is bles, is calcareous earth ;" from such nuthorities, and be assumed as a truth that phosphorus does exist in

That phosphats operate powerfully in promoting vegetation, no doubt can be entertained upon examina tion of facts. Dr. Davy informs us, "that in the neighbourhood of London, bones after maying been be ascribed the virtues of the manure, because lime, in haps stronger than the first might ensue. so small quantities, is nothernusty of but little or no gypsum," become more readily so, and in a greater stance is found, except phosphorus, as we have justicent to which, their operation, notoriously powerful, Margranaf witnessed similar facts: Dr. Darwin re- can possibly be referred, and we cannot avoid attach seen, to which, their operation, notoriously powerful,

whole, or in a very considerable degree.

others, not yet ascertained.

In terruginous soils, it is sometimes injurious; a reason may be offered, set, the exid of iron is not af-

that the presence of sca or salt air destroys its operation, which it is alleged happens by a double affinity; set, that the sulphuric acid of the plaster seizes the base of the salt, (soila) and the immerate ac d of the salt attaches to the line; but I deny that this decomposition, were it to happen, could destroy its efficacy, herouse, as I have proved, all calcareous earths, combined with fixed acids, become phospho-

In lands which are wet, and consequently cold, it should not operate. because, as we have seen, heat is one of the agents by which it is rendered phosphoric,

on which its efficacy depends.

In confirmation, and perfect conformity with my hypothesis, it is a fact stated by the highly respectable That the chief, if not the whole cause of the efficacy of gypsum in promoting vegetation is to be found,
in its tendency to become phosphoric.
The truth of this proposition rests fairly upon the
The truth of this proposition rests fairly upon the
The truth of this proposition rests fairly upon the
The truth of this proposition rests fairly upon the again operate with such re-application of substances," (meaning a slight dressing of hot manure.) It will worly be seen that upon the principles which I contend for, the plaster might act for a time, and its action broken and horled for grease, are ground and sold to be then suspended from the want of sufficient heat to and lime, and to the former of these substances must a small quantity of hat manure, a renewed action per-

In vol. 2d, p. 209, of the same work, Judge Peters quotes a memoir, by a M. Berard, and seems melio d farmer is acquainted with, phuspborus has been found to adopt his opinion upon this subject, set, "That of its fertilizing virtues be referred.

Ist, From repeated experiments of Mr. Du Fay, he asserts that all calcarcous atones become phosphoric dung, trine and bone-dust, and in the residuum of very substantial to vegetative efficacy of plaster; actions, whether they contain a fixed seid, or getable ushes; in the two latter, which are both, one that those which contain a fixed seid, "as chemically the same, (phosphates of lime,) no substance is found, except phosphorus, as we have the latter in predomining invasible as its mode of acting on those, whereon it prodoces invariable and wonderful fleets." Truly inexplicable it is, upon the notion of can possibly be referred, and we cannot avoid attach the sulphur of M. Herard; and equally so, upon the ing to this elementary article, an importance, which principle of its septic quality, for in either case, it the fact may be useful in explaining the operation of it has not heretofore been generally allowed to possess should be equally heneficial to the whole vegetable From this view, then, it is to be deduced, that all kingdom; whereas, upon the ductrine I contend for substances which contain phosphorus or which are the fact admits of easy solution, set phosphorus is capable in their nature, of becoming phosphorus, and found to exist more abundantly in some vegetables than which are found from experience, to be good manures, in others; and therefore some are benefitted by the derive this quality, from this substance, either in the application of those substances, which contain it, more than others; and probably, when we shall have ach may be asked then, why does not plaster in all quired more experience and more facts, relative to attuations, in every earth and atmosphere, impart this this subject, it will be settled, that a plant will be beexposure to the atmosphere, and that in point of time instrument to vegetable st and why does it actually despritted by plact r, nearly in the ratio of the phusphothis result would happen, earlier or later, as the party of riorate some soils, a fact well known to many far-just it is constitutionally disposed to secrete and conta:n.

regulated, too, by many peculiarities of the soil on compastion and changes in the nature and qualities soils; and of its potency or others of apparent smiles have noted if dry and warm its action would be presented in the nature and qualities soils; and of its potency or others of apparent smile behaviored; if dry and warm its action would be presented in some instances, those which counteracted, by largery; yet it will be seen, that most of the Phenoble have not if we are also also also also also also an apparently simple and importance. If an all, adont of a solution, upon the hypothesis herein advanced.

ter does become phosphorie: that phosphorus does constitution of the plant, is always near the middle of ground is in a moist state, exist in vegetables, and that the most powerful man constitution of the plant, is always near the middle of ground is in a moist state, exist in vegetables, and that the most powerful man constitution of the plant, is always near the middle of ground is in a moist state, exist in vegetables, and that the most powerful man constitution of the plant, is always near the middle of ground is in a moist state, exist in vegetables, and that the most powerful man constitution of the plant, is always near the middle of ground is in a moist state, exist in vegetables, and that the most powerful man constitution of the plant, is always near the middle of ground is in a moist state, exist in vegetables, and that the most powerful man constitution of the plant, is always near the middle of ground is in a moist state. exist in regentines, and that the most powerin majoroper, and thence to the time when the sap begins. Throughout November, planting may be continued, nurses contain phosphorus, nearly in the ratio of their to rise, and the bud to swell in the spring, which is during epen weather; by the latter end of which power; and that those most pre-eminent, and acting generally about the middle of March; all kinds of month, it is derisable, that the autumn planting of in quantities so small as to be almost miraculous, hardy decidious trees, may be then transplanted in evergreens should be finished. contain upon analysis, nothing except phosphorus which can pressibly operate at all, (for it is undoubted, which can possibly operate at all, (for it is undoubted,) that so small a proportion of lime, as is applied in of November is very good; for in being transplanted, bone dust, &c. csn produce no visible effect.) and soon after the leaf decays, the plant has the advantage the liberal and candid investigator will assent to my of the considerable interval, which usually clapses bebone dust, &c. csn produce no visible effect,) and of the considerable interval, which usually clapses be greens in December, or the interval and candid investigator will assent to my of the considerable interval, which usually clapses be greens in December, or the interval and candid investigator will assent to my of the considerable interval, which usually clapses be greens in December, or the interval and candid investigator will assent to my of the considerable interval, which usually clapses be greens in December, or the interval and candid investigator will assent to my of the considerable interval, which usually clapses be greens in December, or the interval at the time, arises from the daily probable, the clamber the winter, the plant will be so well bill, y of sharp frost coming just afterwards, for the considerable interval, which usually clapses be greens in December, or the interval at the time, arises from the daily probable, the clamber the winter, the plant will be so well bill, y of sharp frost coming just afterwards, for the and we shall probably in pracess of time, when we shall probably in pracess of time, when we shall probably in pracess of time, when we shall probably in pracess of time, when we shall probably in pracess of time, when we shall probably in the lotter season, will not hurt it.

The comber the considerable interval, which usually clapses be greens used to the finite time, arises from the daily probable to the time, arises from the daily probable to the finite time, arises from the daily probable to the finite time, arises from the daily probable to the finite time, arises from the daily probable to the finite time, arises from the daily probable to the finite time, arises from the daily probable to the finite time, arises from the daily probable to the finite time, arises from the daily probable time, arises from the daily probable time, arises from the daily probable time, arises from the daily probable time, arises from the daily probable time, arises from the daily probabl ties than at present, assign to it an elevated rank among the pabula of vegetables.

I have the honour to be, Sir, Your's respectfully, JOS. E. MUSE.

To the President of the Agricultural Society at Annapolis.

### NURSERY, FOR JANUARY.

(From the American Practical Gardener.)

#### General Observations.

The cultivation of timber, or trees for building falls shrubbery exhibit the course of culture, for keeping the plants, introduced into each, healthy and fertile.

Trees afford shade and shelter to particular walks and districts; some species will grow in law and root at that season freely. marshy places, others on the sides of dry hills, many in waste places, not adapted for the cultivation of in waste places, not adapted in the same time, it must new plants arise, even when blanch is drawing to a other plants or vegetables; at the same time, it must new plants arise, even when blanch is drawing to a other plants of vegetables; at the same time, it must new plants arise, even when blanch is drawing to a other plants of the pl for some specifick kind of soil, in which each species lion of deciduous trees, should be deliberately and will best succeed; a few show a remarkable repugifically undertaken, and finished about the middle of nance to one peculiar sort of ground, and some trees require a fertile soil, in order to flourish.

Although the consumption of timner has not so diminished the number of forest trees, in the United strike root, and Hower the sooner, States, as to render the cultivation of it at present, so important an object, as it is in Europe, yet it requires

to be noticed.

The deciduous and evergreeus are clear distinctions. Deceluous trees remain leafless, from November till

April or May.

Evergreen plants change their foliage by degrees, and preserve the old leaves a long while after the fordistributed regenerations of foliage, do not take place letitude, to which early transplanting, on late transat any determinate time. The leaves of all evergreen planting, for particular objects, may be best nurtured. Strubs and trees, have a thin compact skin over their surface: this may be personned by the structure of the property of the propert surface; this may be perceived by macerating them in lar place be wanted, you may remove the sorts. in water, in order to separate the pulp from the leaves; which the leaves fall the sonnest, as early as the first the separation cannot be effected, until a thin parchment-like case is taken off. The continuance of the mediately after putting them in the ground, and if the leaf throughout winter on the tree, and its retention of verdure, is perhaps owing, in a principal degree, to this close covering. The evergreen plants perspire but little, campared with the deciduous; their nutritive juices are endowed with an nily quality, which tion as it is limited or abundant, so that many evergreens grow in the col-lest regions. From the presence of fixed oils, there is good reason for supposing, that a certain degree of circulation goes on in their

gins an early, that the frost of the winter do not al-ways totally suspend, for a great length of time, the phantation of hardy trees and shrubs. However, betweed September and April, some months are prefera-ble and safer for removing these than others.

# Times for Planting Decidaous Trees.

The lag of time I'v planting these, begins with the

open weather.

The end of October is a principal time; the whole

duous tribe, may be continued in mild weather; but out the frosts that must be expected; this is done by laying some dryish straw or long litter, to a good thickness on the surface, and as far round as the roots spread, and a litte farther.

Towards the end of January, hardy evergreens may be removed, if frosts do not forbid, but no general transplanting of them should be undertaken, till Febspread, and a litte farther. spread, and a litte further.

may be also planted, the mure delicate being treated generally the best time for removing evergreens, as before recommended, to keep the frost from the When it is open weather in March, they will roots. If the ground, designed to receive the plants, front most freely in fresh carth; if it be a dry time, is subject to wet, it is better to defer the removal of give water, and lay moist mulch round the stem, to Procultivation of time r, or trees for defining satisfies subject to wer, it is netter to defer the removal of give water, and lay moist mulch round the stem, to peculiarly under this division. The propagation of them until February. Some fruit, as peaches, necta-prevent the effects of the sun and wind drying the fruit trees and ornamental shrubs, is likewise commences, apricots, plums, and cherrics, will generally successively prehended in it; while the orchard, fruit garden, and code better, if planted out in the spring, than if plants.

Everygees a subject to wer, it is nector to detect of the sun and wind drying the fruit trees and ornamental shrubs, is likewise commenced, fruit garden, and lay moist mulch round the stem, to peculiarly with a supplication of them until February. Some fruit, as peaches, necta-prevent the effects of the sun and wind drying the fruit trees and ornamental shrubs, is likewise commenced, and cherrics, will generally successively.

Everygees a supplication of them until February. Some fruit, as peaches, necta-prevent the effects of the sun and wind drying the fruit trees and ornamental shrubs, is likewise commenced. eá in autumn.

You may continue to transplant them without risk, until the middle of March, and if any occasion for new plants arise, even when March is drawing to a the mouth.

Roses, planted in March, will flower the same year but the snoner they are planted, the better they will

Water after transplanting, may be necessary, if the removal be not till thus inter and when curious and tender sorts are inserted in fresh ground, it may like wise be expedient, to spread some mulch round the bottom of the stem, to prevent the sun and wind from rendering the earth about the roots too dry.

Having specified the extremes, within which it is advisable to keep, in planting deciduous trees, for

week of October is past; give a good watering, imweather be dry, and the exposure warm, repeat the was tring twice or three times, and they will strike the

same scason without requiring more.

Late transplanting,-If there be any vacaity in spots set apart for shrubs, the plants may be removed pretsecures them from being injured by frast, in proporty sufely, till the second week in April, but they must not only be watered well at planting, but refreshed with water frequently during the dry intervals of admit it to be entirely incorporated with the soil. If summer, to keep them alive. To provide a bloom of it could be done, the ground should be well manured, ruses, as late as July, August, and eptember, the and a crop of potatoes raised, previous to commencing transplanting of an assigned number, is sometimes the nursery; when this cannot be easily accomplishpostponed till April or the beginning of May; plenty ed, as it is not absolutely necessary, that the soil

Towards the end of September, you may begin to transplant evergreens with safety, especially if the weather proves moist; if it be dry, they must be pleutifully watered at planting, and once or twice after-wards. They will probably strike new roots before

fall of the leaf, in each respective species, which, at the sooner the better that they may take root, before that a complete nursery should either naturally com-

Finally then, upon a review, we discover that plas-though it varies a little, according to the season and the setting in of frost. Choose a time, when the

When there is a necessity for removing ornamental shrubs in December, it will be advisable to mulch round the bottom of the stem, as soon as they are planted. The objections to the transplanting everhable to be injured in the young shoots and leaves, if severe weather occurs soon after they are removed; and in this respect, they are less hardy than the deci-

In the course of January, during settled and open in the course of January, during settled and open in transplanting; the latter part of the month is If February prove settled and mild, there will be no

When it is open weather in March, they will take root most freely in fresh earth; if it be a dry time,

Evergreens may be very successfully removed, till the middle of April, at which period the general trans-In February, all deciduous kinds may salely be re-planting should be completed; guard the earth over moved; if the weather be open, most sorts will take the roots, from the drying effects of the sun, &cf as before directed.

The proper times for transplanting box, and other vergreen edgings, are the same, as for the larger piants.

Some few kinds of evergreens, the arbitus, for example, the rhadodendron, and the express, may be transplanted even in May, but they will be lost, if not well watered.

Removal of Plants.

The least hardy plants, which as curious exoticks, are often of the most valuable kinds, should be taken up with a ball of earth to their roots. As evergreens are always in a state of growth, it is desirable to have them so dug up, on all occasions, that the old mould may adhere about the roots.

Additional Remarks.

In the commencement of a subject so important, as directions for the proper management of a nursery, the introducing a general table of deciduous and evergreen trees and plants, appeared the most suitable. to convey the necessary instruction, relative to the time and method of planting, and although not only the fall planting, but the winter and spring plantings are in-troduced into this month, the subject is by this means kept more connected, and can with more ficility be recurred to, than to be scattered over different parts of the work. The different species of each genus, are not enumerated, as that would require too large a scope, and be more useful to the botanist, than to the practical gardener. However, if a complete list be desired, it may be found in Miller's Gardener's Dictionary.

It is improper to enrich nurseries with dung, unless it is very old, and almost converted to earth, so as to generally denominated autumn and spring. In mild of water must be given them, till they are well rooted.

Times for Transitionium Essential before of the minter. carefully trenched in the bottom.

A small nursery for private use, may be made in any suitable part of the kitchen garden.

#### Soil and Situation.

It must be evident from the affections and antips: Hardy plants may be removed any time in October, thics of plants, in respect to different kinds of earth, prise, or by art be made to comprise soils of various qualities. The mould, in the chief part of it, should be light and pliable, with a large mixture of sand, and the chief behalf by a rest of it should be a rest of it should be a rest of it should be a rest of it should be a rest of it should be a rest of it should be a rest of it should be a rest of it should be a rest of its should b part of it should be a rich fine loam; there should b also, a minor proportion of clayey land, and if possible, some peat earth within the boundaries.

A cold damp bottom, or a soil which ladges any stagnant water, will be very unsuitable, except it be

well drained.

The upper soil should be naturally good, or melio-

rated to the depth of two feet.

As to aspect, the nursery should be open to the east. south, and west, and sheltered on the remaining quar ter, so that if a particular exposure is either wanted er to be denied, to any of these plants, it may be ob tained by the interposition of screens. If there be slight declivity in the surface, so as not to interfere with the general tillage of the ground, particularly if the inclination be to the south or east, it will have some advantage over a level.

Fencing, preparing, and laying out the Ground.

hedge and ditch. When the whole is trenched, as before directed, procompartments. A principal walk should lead through and two feet in the rows; the shrubs should likewise otherwise do not plant therein before February. the middle from eight to ten feet wide, having a broad have the rows about three feet asunder, and eighteen border on each side; another walk should be carried in hes distance in the rows, varying the distance, acall round, leaving an eight or ten feet bord r next the cording to the time, they are to stand in the nursery. ternal part by cross walks, so as to form the whole in- feet distance apart, and eighteen inches in the rows. to four, six, or eight departments, carled quarters.

One or more of the divisions must be alloited as a semmary, for the reception of all sorts of seeds, for the reception of seedling plants, to furnish the other parts. Divide this seminary into regular beds of three and an half to four feet wide, with eighteen inch alleys between each bed; in these beds, sow the seeds, mg, or hoeing, and some are drilled in by a hoc. &c of all such trees, shrubs, and herbaceous plants, as are raised from seed, and which consist of the various sorts of smaller seeds, kernels, and stones of fruit, to raise stocks for grafting and budding; seeds of for ble, except when the roots are large and spreading, or est trees, ornamental shrubs, &c. and seeds of numer. such as are removed with balls of earth, then they kernels half an inch, with light earth; keep them ous herbaceous perennials, both of the fibrous and are more commonly planted with a trowel, or small clean from weeds, water them in dry weather. Some bulbous roots tribes. The sowing season is both spring and autumn, according to the nature of the different sorts. When the young tree and shrub plants refer sorts. When he young all the plants of the best manner, should be done as follows:-trim daw, juniper, yew, mezercon, sweetbay, English and planted out in nursery rows, into the other principal off the top of the bed six inches deep, then line out Fortugal laurel berries, horn beam, ash, spindle-tree, divisions; but many kinds of herbaceous plants rethe place for the plants to be set in, the rows six nbladder nut, and all the other kinds of tree, and shrub or three years.

with tall stems, after being planted one year, are to inches under the surface of the ground. be headed down near the ground, to force out many lower shoots, conveniently situated for laying.

are for the reception of the various seedling plants, budded. from the forementioned seminary, as well as for those which are raised from cuttings, suckers, layers, &c these to be planted in rows, from one to two or three choice plants upon. Most forest and other hardy tree set in low. purposes, they are designed for.

dry, warm, sheltered situation in the full sun, on which to form the stem of the treeto make hot beds of dong or tan, for raising and for warding many sorts of tender and curious exoticks, by furnished with every requisite necessary therefor.

General mode of arranging the Plants.

in the distribution of the various sorts of the plants in the nursery, let each sort be separate; the fruit shrub kind should be ranged in separate compartments; a place abould also be appropriated for her baccous perenainis; a warm situation should be asgood for the tender plants, which should be defendd with yew, cedar, or some other hedge. In this place those plants may be kept in pots, which require o be preserved from severe trosts, and yet not so ten trimming off all straggling roots of both. der as to demand the protection of the green-house. The arrangement of all these should be in rows

Fruit tree stocks, for grafting and budding upon, A fence round the whole nursery is necessary, of should be placed in rows three feet distant, and about ther is like to be mild, and hard frosts are not expectthe best materials you can procure; a hoard fence, or one foot apart in the row, if for dwarfs; standards and to follow. should have their rows four feet apart, and eighteen

Planting out the Seedlings.

some, especially small seedlings, by the dibble, others

Planting Herbaceous Fibrons-rooted Plants.

These are for the most part planted out with a dibspade.

Planting Bulbous Rosts.

Bulhous and tuberous-rooted plants, if set out in quire to be pricked out from the seed-beds, when but ches apart, cross the first lining at right angles, six seeds, which require a year's care previous to sowing. from two to three or four months old; bulbous seed-inches distance, and in every corner of the bed put in lings will not be fit for planting out in less than two about an men of clean sand, on this set the roots of hyacinths, or fulips: crocusses do not require to the Another part should be allotted, for stools of vari-planted at such a distance Crown imperials require ous kinds of trees and shrubs, to propagate them by two feer each way; previous to planting them, lay a layers, by which numbers of plants of different kinds shovel full of fresh cow-dong in the place, then put in Pive Minutes Reflection on Sheep. are propagated These stools are strong plants of the root, cover it with another shovel full of the fresh trees and shrubs, planted in rows three or four feet dung, and over this the earth so that the root may be distant every way, and such of them as naturally rise entirely covered with the dung, and its crown he six

General Culture of the Plants of this Department.

Those designed as stocks for fruit treus, should The enttings, suckers, slips, off-sets, &c. of hardy have their stems perfectly cleared from lateral shoots. venient part, in shady horders, &c. and for the more the leading shoot, unless it is decayed, or become

> After they are budded or grafted, such as are declean stem, five or six feet for full standards. by cut-

In a complete nursery, it will be proper to allot a weakest, and heave the straightest and strongest shout,

When the limit trees are grafted or budded, place sticks to the different species labelled 1, 2, 3, &c. and seed, cuttings, suckers, slips, &c. and be careful to be set them down in the nursery book; paying the same attention to the forest trees, shrubs, and perennials.

Where the plants are in raws, wide enough for the hoe to pass between, which would be the best method, even for the scedlings, hoe the ground well, and frequently, during spring, summer, and autumn, both for trees should generally occupy spaces by themselves: the culture of the plants, and to destroy the weeds, the forest trees should be stationed ingether, all the also hand weed between the rows. Every fall or pring, the ground between the rows should be manured with old rotten dung, and dug up, turning in the manure, and weeds, to the bottom-

Southern States.

This month, prune the deciduous shrubs and tree-

Transplanting of young forest and ornamental trees, in the nursery may be now performed, particularly deciduous trees, &c. of the hardy kinds, if the wea-

Prone all hardy, deciduous shrubs, and in open setinches or two feet in the rows. Forest trees should tled weather, transplant them both in the nursery, and ceed to divide it by walks, into quarters, and other be placed in rows, four feet asunder row from row in the shrubbery plantations, provided the soil be dry,

Plantations of fruit tree stocks, for grafting and budding upon, may be made at any time this mouth. Many of those raised from seed, last spring, may be ontward boundary, all the way; then divide the in- Hertraceous plants should be disposed in rows, four now planted in nursery rows, as before directed, and when they have stood there one or two years, will be fit for budding and grafting See Nursery, October, for the method of planting; that of March for grafsery plants, after being raised either by seed, layers, ing, June, July and August, for hudding. This besuckers, or cuttings; this is performed by pricking out
the southern to propagate decidious trees in the southern states, as well as shrubs, by layers, the are put in by the spade, either by slitting in trench- reader is referred for directions, to Nursery in February, also slips and cuttings.

Prepare some ground, where it is not wet, for the reception of stones and kernels, of hardy fruit, to raise a supply of stocks, for buddling and grafting upon; cover the stones an inch and an half deep, and the of them may be transplanted into the nursery rows, in November.

Sow the various kinds of hawthorn, helly, red ce-

For instructions see February and March.

FROM THE AGRICULTURAL MUSEUM.

(Concluded from our last. )

As to the treatment of the flock in general, the best thing to be offered them is good pasturage, in this climate from about the 20th of April 1-Il the 10th of December: a little sooner or later according to the season between which periods they must have food trees, shrubs, and plants may be planted in any con so as to form a clear straight stem, but never shorten from the racks and troughs - Let the racks be well stored with good hay, clover or timothy in preference, tender kinds, some warm sheltered situation should be very crooked, in which case, if it is cut down low in for them to go to at all times. From the troughs give pring, it will shoot out again, then train the main them at the rate of about a gill of Indian corn a day, The other principal divisions of the nursery ground, shout for a stem, with its top entire, until grafted or or its equivalent in oats, pear and the like, through the winter, and in hard weather double the quantity, Irish potatoes chopped, or passed through a cider signed for full standards. must be kept to a single [mill, is an excellent food from the trough, and particularly toward spring for the ewes that have lands feet asunder, according to the manner of their growth; ting off all lateral shoots, which sprout below; half Turnips, so much recommended in England, I consi-allow the tree and shrub kinds three times the dissistandards trained with a three or four feet stem, and der no object here; there is difficulty too in preservtance of herbaceous perennials. Some are to be plant- dwarf standards headed down to one foot from the jung them either in the ground or out of it, through ed for stocks to graft and bud fruit trees and other ground; the graft or bud of these must of course be our winters; and as to folding, though I never tried it, I apprehend that it injures sheep more than is comchoice plants upon. Most totest and other inergy rekinds, also almost all the sorts of shrubs are trained
femously on their own ronts, without budding or graftling. Here they must remain to hove several years
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lead to a sma before it has attained a proper height, trim off the tolerably well, but there can be no doubt that good

Agriculture; the produce amply pays the additional and the condition of the whole flock, give a clear pro-fright, and no the outer side; indeed at very little exfit in the consumption of the food from the rack and prices a moveable shelter and pen for the wanter esthe trough; and the great advantage of this system lablishment, if danger is apprehended from feeding will be found to be, that a Farmer may, on the same ground, with a little additional care and attention made also proof against dogs. support four or five times as many sheep as he did on his old plan; because he then made his calculations gentle. The sheep are more readily fed and inspected, only on what his postures could do for them in winter and when it is increasing to handle any of them, as want when he found that if he encreased his though will frequently be the case in a system of good care beyond a given number, they became darty moscal and good feeding, there is no racing or penning, to obligated, coughing, losing their word, he coust which, heads the delay and trouble of the thing to d red himself overstocked, and killed or sold off, and catch a single sheep, armoys and disturbs the whol so he was select as to the mere scuffing in winter dock-and some times accidents happen. It is easily for the little herbage left by the frosts wathen then effected, by making it the particular business of some reach.

pasture land, will support from the middle of spring them to feed while he is in the midst of them, and or pasture land, will support from the middle of spring turns to feed winteners in the midst of their land is an experience of the body and principally about the back and ramp) that frost, four bunder) sheep. If it is pressuable than ten to take it from his bands—and those among them but the bady and principally about the back and ramp) to feed in winter, it is clear, that every Furn may that are the most sky, let him, by show approaches and without much breeching, (long straight hared have its stock more than quadrupled, because these and had made puricularly attend to—he will soon spots on the thighs)—a single ram with these defects one bundled agrees under the pr. sent practice, will may have the whole flock at his call, at any soason of the will entail mischief on the flock for many years—and one hundred acres under the present practice, will mad mave the whole flock at his call, at any season of the corry through the year more than sixty or seventy year, and under his hand, he may take hard of any every ewe of this description will be removing to a sheep, even where hy some tend remarker, a little sheep he wants. A good sheep red should know, and greater distance the period of improvement stant or corn-fielder is thrown them to pick under he may very soon come to know every individual in It is an error, but too common, to judge of a sheep their feet. Salt should be given, where distant from his flock, if not a large one, and if very numerous, he found the apparent bulk and form given by a coat of the influence of salt water, in the trenights, or on fir should at least know forty or fifty of the most restones imaged for the purpose, twice a week winter markable and summer. Green nool early in speng is very ad. The principal cause of the decay of flocks, is that variageous to the twee and lembs - Orchard grass, the old sheep are not removed from it in season; any first will be found to have lost all its supposed beauty and the Peruvan grass (so called in this part of the man will acknowledge the truth of this remark, who and advantage, and on inspecting the flee ce, they will country) afford early pasture, but I think the best way will be at the pains of observing. He will find that, not be discovered to have been left there e this will be is to saw a piece of Rye, every full early on purpose—with the same treatment, the young sheep (up to six seen to be too long and too harsh for early, fit only this will accasionally afford a good bite through the or seven years old) will be in good case, while those to fatigue and vex the good housewife and her spin-winter, said in spring may be fit as late as the 29th of older will be thun; and those yet more advanced mis-mars—and to make, even among coasse fabries, suff April, and then give, if the season is favorable, a good crably poor and apparently diseased. It is a short uncomfortable clothing.

sheep, and exclude other stock, except hogs, which as are now of proper age, but above all to examine the down the side adjoining the shoulder is the best place should not be suffered to run in the sleep pasture - io coats and mouths of his grown breeders, and to set to draw from, for quality and uniformity. and cut of this pen let them pass at pleasure at all apart for the butcher all that have broken mouths or the winter to browse on; the resinous substance conflock twice a week during winter.

There must be water in the pasture, for although sheep do not require drink in summer when at grass,

requisite to them.
There is a prevalent opinion, with which I do not hold, that sheep do best at all times without confine ment or shelter; this is true as to confinement, except oreasionally at yearing time, but not as to shelter; they want no defence from mere cold; nature keep him longer under these disadvantages, and the from which I did suffer sorely for several years, after has sufficiently covered them against that, not so as to wet and cold combined. The baving their fleeces

lying on their own filth, will sooner or later infect the rule is, never to shear more than six fleeces from a thought infection, and the worst were s parated. In fleck; but in winter, and with the precautious I have sheep, notes as to a particular animal which may be some years they all had it, and then I had often advised, as to cleaning out the sheds frequently and preserved on accommon qualities.

The best recommon qualities.

The best recommon qualities. advised, as to cleaning out the sheds frequently and preserved on account of a common qualities.

The best season for shearing, I have found to be and procuring a fresh and more healthy stock; at

It is of great importance to have the flock entirely one sedate careful person to attend to the flock. Let There is no doubt that one hundred seres of good ham by degrees, and particularly in watter, secustors

op of grain.

To feed the flock securely and conveniently in winclines; and although there are instances that a sheep may soon habitoute his eye to the relative qualities. and manage his hold, in pasture, at the rack or trough broken in the process of washing and dryingwith the same facility; his constitution begins to fail; the younger and more vigorous competitors call the ing but few discuses to which sheep are subject, and hest grass from him in the field, and shove him out of therefore am not acquainted with many remediesthe way of good fare in the pen. It is then fully to The principal disease from which I have suffered, and more is the folly, because as a sheep propagates as early I began to raise this stock, my people called the counas a daughill fowl, and with the requisite care, such by distemper-I have already described it; dirty noses, drenched with cold rains, the being for months on the wet and frozen ground, impairs their condition, brings down to a given number, the only question as to the of word before shearing time, great mortality in lands, we coughs, and engenders this age. It is certainly true, however, that the stonding and the ewes - and in what proportionate quantity. The had often to buy in to keep my number up, it was

feeding in winter is real economy, as much so as put finddle of April to the middle of December, there is the middle of May t there is danger in taking off the Agriculture; the produce amply pays the additional guard against tlogs at night, in which case it should after they are stripped, many will be lost; so sensi-Agriculture; the produce unity pays of animal and be so constructed as to be moved frequently, made six ble are they, at this time, to the changes of the atmosquality of the wood, the number of the lainbs raised, or seven feet high, and the raits or pring placed up-inher; and should a spell of cold rainy weather overtake them within a few days after they are sharn, the only remedy is to house them till it is over.

As our farmer may in a little time renovate his flock, ton long on one spot, might easily be contrired, and by gatting rid of the old subjects and supplying in plenty wholesome provender, so may he in a very few years, greatly change and ameliorate his wool, as well as increase it in quantity, by selecting for his breeders haly such as have desirable coats; without having recourse to new breeds. At the shearing season, ileece is full grown, and all its defects or advantages may be seen; at this time then let the final selection be made among the grown sheep; since however pramising a lamb may have been, as to a ze and form, when turned out, its wool can only be judged of when he comes to the first show - Seek for wool curled in the fibre, set close on the pelt, and free from statched have as they are called—(bairs interspersed through-

on a sup riteral observer. Let such a sheep be stripped, and then examine his carease and his fleece. the

ter, let there be a recomy pen fixed on a piece of dry lives and propagates to twelve or filteen years, they iso as to be a competent judge of any fleece or detachground, with a thatched shed drooped in the north—are rare; the rulo is otherwise. The time of shearing ed lock, and the speedlest way of effecting this, is by open on all sides but on the north, long and wide enis the time of general inspection, and of disposal of frequently drawing samples from individuals of one's ough to admit the racks and troughs under cover, and the flock. Then let the master's eye be scrutinously own flock and those of his neighbors and comparing to ulford room to the flock to Le dry. Heside a gate placed on every sheep he owns-to chuse his lambs to them, taking care to draw them from the same part for the attendant to go through, let there be a pannel breed from, to mark, to fat, and to dispose of io the of the body; because in most sheep there are difference to the leight of three feet—this will receive the course of the field and winter, not only such wethers ent qualities of wool on the different parts; half way

I do not think it is desirable to wish the wool, as times After every fall of rain or snow, the interior indifferent coats. A sheep at birth has his mouth full some practise on the sheep. It is a disagreeable proof the pen should be strewed pretty thickly with clean of lambs teeth, eight on the lower jaw (every body coss to the operator and to the sheep, and as I believe dry litter, and the space under the sheds be seraped knows that he has none at any age on the upper jaw) endangers their health. I would recommend that clean, and littered aftesh every two weeks; the at one year he drops two of these in front and actific he shore unwashed. Let the finest wooled sheep manure so made will be an object. It will be very quires in their place two sheep's teeth—the second be separated by inspection before shearing, let the useful to have within the enclosure, a copse of echars, year he gets two more, one on each side of these last fleeces of these he made up carefully without breaking; or pines, to which the sheep can have access during —the third year he has two additional in the same and when the wool is to be washed, let them be openway, and during the fourth year, there come out the led on a plank floor and stretched out with the skin the winter to provise on; the reamons substance con-way, and during the following the control of the fleet may be tained in the leaves of these trees, are both grateful and salubrious to them—in default of such a copse, if in the commencement of the fifth year, the mouth is readily distinguished. Take off the breeching or him there he may of the trees within convenient distance, the may of the trees within convenient distance, the boughts should be brought and thrown into the life lower jaw; during the sixth year, the mouth be these among the coarse fleetes, and there will be left and the convenient distance. guis to be, what they term, broken; that is, the teeth the better parts of the best fleeces, and an easy re-are wearing away in front; and in the seventh year sortment will have been made of the fine from the they have all become smaller, and several are worn coarse for family purposes. A tolerable selection cannt this scaron, and when on dry food, it is absolutely near to the guins; the unimal is no longer able to pick not be made after all the fleeces have been moved and

As to myself, I have as yet, been fortunate in know-

passible such medicine might be of service to my own sheep I applied it immediately on my return home, and to a few weeks was gratified to find that it had relieved about two thirds of the flock on examining the next spring, those still affected, I found them absolutely without teeth-these things brought me to my reflections-I set seriously about the reform, and by degrees adopted the system I have here recommeaded, with complete success, as may, I am satisfied, any farmer who will be pleased to try it. A MARYLANDER.

DESULTORY READINGS.

Under this accompodating title the Editor proposes to appropriate to himself, occasionally, a column or two of the Farmer, for the sake of presenting, more especially to the younger class from various authors, as may seem calculated expression. It is one of the cheapest fixed to convey both manusement and instruction.

Though these selections will generally be Inhaues of the husbandman; they will also be, sometimes, of a moral and literary cast, according as accident may happen to present the one or the other. We have too often to regret the want of leisure for a more extensive and deliberate course of studies, that would enable uto make this paper more worshy of the generous encouragement it has received, but we must never forget that our first and paramount daties are those due from as as the Postmaster of a

populous city.
We here copy, as an example of what we design, the holanical description, with a short account of the history and medical virtues of Flare-for although many of us have seen in growing all our lives, we never probably thought be used as other mild oils. of it, in any other light, than as the means of making linen. How inglurious to remain thus uninquisitive about, and ignorant of the history, the elements, and some of the most obvious and useful purposes of things which grow up, and perial about us every day. By spreading in there is no pursuit in all the circle of human car ployments, that admits of greater variety and more various entertainment, that shetter cateu-Inted to exercise, and develope, and strengthen the mental faculties; or that is more likely to parts of wood ashes; pour over them a dobeget and cherish all the better feelings of the heart, than furming, when the proprietor conducts it like a gentleman and a man of science -when he unites, as he ought to no, with the labours of the field, the preasures of the guo, the exercisor of the chase, the experiments of the laboratory, and the studies of the closed had been placed a little straw, with a con-

house on an excursion in a neighbouring state, feed by so dhing, provide, at home, that defence for some hours, take it out, and throw it in cold high the troughs and racks in winter, that it was against annihily than are troughs and racks in winter, that it was against annihily than are troughs and racks in winter, that it was against annihily than are troughs and fact that the cold in against canui, which they are too apt to look for water, this boiling &c, may be repeated, if re-

## FLAX.

HISTORY.

This valuable annual plant is said to have come originally from mose parts of Egypt, which are exposed to the inundations of the Nile. It now grows wild in the fields in the south of England, and is cultivated in large

quantities. It flowers in July.

Linseed coutains about one-fifth of mucilage, and one-sixth of fixed oil. The mucilage resides entirely in the skin, and is separated by infusion or decoction; the oil is separated by more or less connected with the pursuits and after the expression of the oil, contains the fact-

MEDICAL USB.

tire seeds are used in cataplasms, the infusion s much employed as a pectoral drink, and in mention of corresive sublimate.

Bergios recommentis this oil as a good remedy in the illiac passion and volvulus, it is much employed in manufactures of different kinds.

known; it may be that we shall foster amongst till reduced to one quart; add to it a quarter the sons and daughters of farmers, a thirst for of a pound of pounded sugar-candy, a table that we shall be able to convince the young man, and vinegar should be added as the decortion is and especially to some Guatlemen who have, in some igouminious character, which is so often and so and a little may be taken who sever the cough is undeservedly attributed to it; on the contrary, troublesome, the worse cold is generally cured the Index, which will be very much in detail, along -y this rewedy in two or three days; and, it with the last number of the first volume to those who taken in time is considered tofalliable.

To dress Flace to look like Silk.

proportion of water to make a strong lie, after

length it struck me, on observing a flock at a friend's works on Natural History and Philosophy, and over the whole the clear lie, and ofter builing it on taverns and billiard rooms, in the bottle or quisite. The flax must be each fime dried, the dice box? dressed through a large camb, and through a very fine one. By this process the flax acquires a bright and soft thread. The tow which is off, shen papered up and combed like cotton, is not only used for many of the same purposes, but makes lint for veterinary surgeons, &c.

#### FARWER.

BALTIMORE, FRIDAY, JANUARY 21, 1820.

TO SUBSCRIBERS.

Those who have, and those who have not paid. When this paper was established, the Editor laid it down as a general rule, to require payment in a rounce. mis ; not is generally raucal and nonsenus, and life felt conseious that, from the communications he unfit for internal use. The cake which remains should receive from men of superior abilities and experience, as well as from other valuable resources, he could give to the cultivators of the sail, a valume raceous and muchlaginous part of the seed, and that would be more than worth the subscription is used in fattening cartle under the name of anney. - this leasure moments have been devoted with qual zeal and pleasure, to make the Farmer, an useful Narional Work, on the great subject of American Linseed is condition and demulcent, the en- Agriculture. The demand for the paper, has exceeded me anticipations, and he has every reason to be grateful for the punctuality of his subscribers. In a great number of instances, Gentlemen have paid for arrior uring nephritic pains, and during the ex- the whole year in advance, instead of one half as required; and in some cases they have even advanced Linseed abounds with a quantity of oil and for two years; with friendly assurances of a desire to nucilage, it yields its mucitage to water; and see such a work in general circulation throughout our country. Some Gentlemen, in the midst of numerous afusious of it sweetened with sugar or honey, occupations of publick and private concernment, have or prepared with the addition of some liquorice leven solicited subscription papers, that they might proroot, prove good, and useful remedies in coughs care additional names, being pleased to say, that in so and rheums; and the oil got by expression may doing, they consulted themselves as promoting the best interests of the country. But of there are still a few who have neglected to pay for their paper; and although few in number, it is necessary to remind them now, in order to know whether their names are to be transferred to the list of subscribes for the se. PHERARATIONS.

Cure for a recent cough and cold.

Put a large tea-cupful of linseed, with a recast —1t has so happened, for the most part in this their way some striking examples to show in squarter of a pound of sun raisins, and two way—Gentlemen, known to feel a kind and friendly how many new lights, science can exhibit those nunces of stick liquorice, into two quarts of interest for the Farmer, have requested the Editor to productions of nature, apparently the best soft water, and let it simmer over a slow fire speciable and wealthy men, puncinal in their general transports that they were respectable and wealthy men, puncinal in their general dealings, and would undoubtedly pay when call-ed on; we take this opportunity therefore, as the first researches in natural history, and a taste for spoonful of old ram, and a table spoonful of the volume is drawing to a class, to return our sincere the pursuits of literature in general—it may be nest white wine vinegar or lemon juice, the ram thanks to those who have complied with the terms; who reluctantly submits to the calling of the taken; for, if they are put in at first, the whole cases obtained as many as thirty subscribers; at the who reluctantly submits to the calling of the taken; for, it they are put in at first, the whole same time to entreat those low who have not paid, to plough, that his occupation, when properly and soon becomes that and less efficacious, the dose remit immediately, by mail, at the risk and cost of liberally viewed, is not of that monotonous and is half a piet, made warm, on going to bed; the Editor. We are very unwilling to strike the nome of any Centleman from one list, but we shall not send shall not have previously paid four dollars.

In proportion as domestic manufactures revive, that Take one part lime and between two or three much neglected animal the steep, must revive in pullick estimation; we have therefore copied, "The minutes reflection" of some able writer on sheep. We my have stood together all night, which must Space that the works of Tessier and Daubeaton, and Somerville and tavaigation, &c. on the same subject's se poured off when quite clear. The handful part this writer has, with masterly discrimination, and of flax at both ends, to prevent it-entanging, with happy application to the c-reumstances of one at the middle of caun he spread upon, and own country, condensed all that is essential to be put it in a kettle, on the bottom of which has coasid red in the present state of things, on this item of rural economy.

How much more nonourable would it be too young gentlemen in the conactry, so myest then put another cloth over the flax young gentlemen in the conactry, so myest then all so contains covering each layer of flex with losses at the gaming table, in collections of a cloth, thit the kettie is nearly fulls. Four

# Tiggleo edonig

AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

Carefully Revised and Correcte			
ARTICALS.	- 1	RETAIL	PRICES
BEEF, Northern mess	իևե. <u> </u>	17	
No L		15	
No 2		13 50 16	
Bacon,	lb.	18	20
Butter, Ferkin		33	~ (
Coffice, first quality,	1	27	28
Cotton,		27	
Twist, No. 5,		45	
		16	50
No. 11 α 20, -	1 1	90	1 8
No. 20 a 30, -		30 <b>3</b> 3	1 20
Chocolale, No. I,	1	25	
No. 2,		25	
Candles, mould,	kox	20	2
dipt,		16	1
spormaceti, -			scarco
Cheese, American,	ib.	10	l:
Foathers,	0.1	80 3 50	6.
Fish, cod, dry	nti. bbi.		relail
herrings, Susquehennah, mackarel, No. 1 a 3	1000	9	12
shad, trimmed,		7 76	7 8
Flour, superfine,	1	5 50	6
line,	pp1.	5	5 5
middlings,	1 1	1 50	5 42
гуе,	000	4 #	4 2
Flaxseed, tough,	bush	none.	1
cleaned,	lb.	do	
Flax,	1.5.	12	] ]
Hogs lard,		12	1
Leather, soul,		25	3
Molasses, linvans,	gal.	62 1-2	7
New Orleans, -		75	}
sugar house,	en1	1 50	
Oil, spermaceti,	gal. bbl.	18 0	20
PORK, mess or 1st quality, - prime 2d do	351.	16 a	17
cargo 3d do		1-1 a	15
Plaster,	ton	5	l
ground	bbl.	1 75	
Rice, Spikers, Brandy, Fronch, 4th proc	· lb.	2	3
peach, 4th proc	of	1 25	15
apple, 1st proc		75	
Gin, Holland, lat proc	of	1 50	
do. 4th proc	ot	50	6
do. N. England		1 50	
Itum, samaica, American, lst pro	of	1 30	
American, lat pro- Whiskey, lst pro-		50	
Soan, Americae, white	lb.	18	2
Soap, Amoricao, white, do. brown, -	}	9	
Sugars, Havana, white,		19	
brown,	1	12 25	15
loaf,	lh.	20	
lump,	bn.	70	
Salt, St. Ubes,	100.	75	
Shot all sizes,	16.	12	
TOBACCO, Virginia fat,	CIVI.		
do. middlings,		8 50	
Rappahanaoek,		0 50	5 5
Kentucky, small twist, manufactured,	ib.	25	
pound do	. [""	50	
TEAS, Bobes,		65	3
Southong,	lh.	72	
Ilyson Skio		78	
Young Hyson,		1 23	
Importal,	1	1 ' 81	
WOOL, Mcrino, cleau, unwushed, -		40	
eroszed, elean,		5	) ·
unwashed, -	1	3.	
common country, clean,		3	
unwash	ed	33	
akinocr'a,	- 1	1 3	• 1

PROCEEDINGS OF THE AGRICULTURAL SOCIETY OF ALBEMARLE.

# ON MANURING FOR TURNIPS. No. 7.

I beg the liberty of communicating to your society, the result of an experiment I made your stock.

the last year in the culture of Turnipa.

Sin.

A small patch of ground containing one fifth of an acre, which had been a cow-pen the preceding year, I had thoroughly ploughed and har-rowed about the middle of July. On or about the 10th of August, immediately after a heavy nips, &c.—Autumn gather and feed to stock. 22 rain, it was again ploughed and harrowed, and welve inches distant, crossing at right angles, holds in high estimation the efforts of others in said off with a hand-plough both ways in furrows 65 At the intersection of the furrows, I had the the cause of agriculture, is desirous to know common summer turnip seed dropped, (three the result of the soiling experiment of Col. 25 the 10th of September, when they had from five to seven rough leaves, about six inches long, 1 had the ground thoroughy hoed-the weeds renoved, and the hills thinned-one plant only 15 heing left in each. On the first of October and then builing eight gallons wore, put that in they covered the ground, and measured about also; to this add twelve pounds of molasses two and a half feet in length. At this time with about half a pound of the essence of the roots were not larger than a thimble; but spruce and on its getting a little cooler, half they soon begun to grow rapidly, and the out a pint of good are years. The whole being well side leaves to fall off. By the last of the month, stirred, or old in the barrel, must be left the ground. It yielded seven and a half bushels when it will be ripe, and fit to drink in a fortof excellent turnips, all nearly of the same size : might. 50 the smallest weighing about two, and the lar gest not more than four and a half pounds. No difference was discoverable throughout the patch. 60 Admitting therefore that every part was equal, (and I have no hesitation in asserting the fact.) the whole product was two hundred and forty bushels, in the proportion of twelve hundred 1000 acres, lying on the Chesapcako Bay; the other bushels to the acre—a product considerably of 300 acres, on St. Leonard's Creek. The large tract bushels to the acre-a product considerably greater than I have ever known in this country, and not inferior to what Sir John Sinclair says 28 the best cultivated land in Great Britain ought 25 to yield.

My principal object in making this communication is, to remove the erroneous idea entertained by many intelligent agriculturists, that the soil und climate of Virginia are unfavoratime, to make known what I consider the best method of planting and cultivating them.

With regard to the comparative value of turtho nips for stock and culinary uses, it is unneces-150 sary to express an opinion; but I do nut hesitate to say, that larmers in every section of our country who will pay some attention to the cultivation of that vegetable, will be richly remu-BEN. COLMAN. nerated.

P. MINOR, Esq.

Sec'y of the Agri'l. Society of Albemarle.

FOR THE AMERICAN FARMER.

A NEW ROTATION.

The following rotation is submitted for the consideration of agriculturists. The criticism of experienced and enquiring farmers is respectfully invited.

1820-Autumn-Spread and plough in your

1821-Spring and summer-potatoes, turnips, &c .- Autumn gather in and feed it to

1822-Indian corn-Autumn snw clover.

1825-Clover-Autama turn in clover and sow wheat, &c.

1824-Wheat-Autumn manure and plough in stubble.

1825-Spring and summer-Putatnes, tur-

MR. EDITOR, -One of your subscribers, who tilghman of Washington. If he will be parti-

How to make Bros a Spruce Beer.

Pour eight gallons of cald water into a barrel. they had got their full growth. On the 10th of with the bung out for two or three days; after November I measured the product of one square which the liquin may be immediately bottled, rud, taken indiscriminately near the centre of cooked up, and packed in saw dust or sand,

stemember, that it should be drawn off into quart stone bottles and wired.

LAND FOR SALE, In Calvert county; 1300 acres in two tracts; one of is principally in wood and timber; the part in cultivation level; the soil, for the most part, a stiff lunm, a small part light; it has a salt marsh, that renders it fine for grazing, that will support a great number of cattle, even through the winter. The situation particularly fine for Oysters, Fish and Fowl.—The small truct, has an abundance of wood and timber; the soil very various; part clay, part sandy, the greater part a light loam; the improvements on both are pretty good, the istier has springs of delightful water quite 50 lile to the growth of turnips; and, at the same convenient; the former though not so good, yet not deficient - A bargain may be had in the large tract; the terms easy in both. For further particulars apply to the subscriber near St. Leonard's, Calvert JAMES M. TAYLOR.

January 7th, 1820.

PRINTED EVERY FRIDAY AT 48 FER ANN. FOR JOHN S. SKINNER, EDITOR, At the corner of Market and Beleidere-streets, HALTIMORE,

BY JOSEPH ROBINSON.

# AMERICAN FARMER.

# RUBAL ECONOMY, INTERNAL IMPROVEMENTS, NEWS, PRICES CURRENT.

"O fortunatos nimium sua si bona norint "Agricolas." . . . . Vino.

Vol. I.

# BALTIMORE, FRIDAY, JANUARY 28, 1820.

Num. 44.

Under this title, that judicious and enterprising Book.

Miscellaneous Observations for the use of the Mistress of a Family.

In every rank, those deserve the greatest praise, who best acquit themselves of the duties which their taken the conduct the second of the conduct the second of the conduct the second of the conduct the second of the conduct the second of the conduct the second of the conduct the second of the conduct the second of the conduct the second of the conduct the second of the conduct the second of station requires. Indeed, this line of conduct is not a matter of choice but of necessity, if we would main. tain the dignity of our character on rational beings.

In the variety of female acquirements, though do mestic occupations stand not so high in esteem as they formerly did, yet, when neglected, they produce much human misery. There was a time when ladies knew nothing beyond their own family concerns; but in the present day there are many who know nothing about them. Each of these extremes should be avoided: but is there no way to units in the female char. acter, cultivation of talents and habits of usefulness? Happily there are still great numbers in every situation, whose example proves that this is possible. Instances may be found of ladies in the higher walks of life, who condescend to examine the accounts of their house-steward; and, by overlooking and wisely directing the expenditure of that part of their husband's income which falls under their own inspection, avoid the inconveniences of embarrassed circumstances,-How much more necessary, then, is domestic know-ledge in those whose limited fortunes press on their attention considerations of the strictest economy! There ought to be a material difference in the degree of care which a person of a large and independent estate bestows on money-concerns, and that of a person in confined circumstances: yet both may very commendably employ anme portion of their time and thoughts on this subject. The custom of the times tends in some measure to abotish the distinctions of rank; and the education given to young people, is nearly the same in all: but though the leisure of the higher may be well devoted to different accomplishments, the pursuits of those in a middle line, if less ornamental, would better accure their own happiness and that of others connected with them. We sometimes bring up children in a manner calculated rather to fit them for the station we wish, than that which it is likely they will actually possess; and it is in all cases worth the while of parents to consider whether the expectation or hope of ruising their offspring above their own situation be well founded.

The cultivation of the understanding and disposi tion, however, is not here alluded to; for a judicious improvement of both, united to firm and early taught religious principles, would enable the happy possessor of these advantages to act well on all occasions; nor would young ladies lind doniestic knowledge a burthen, or inconsistent with higher attainments, if the rudiosents of it were inculcated at a tender age, when activity is so pleasing. If employment be tiresome to branch of a lady's concern, as it involves judgement in a healthy child, the fault must be traced to habit which, from many causes, are not at present favoura-ble to the future conduct of women. It frequently happens, that before impressions of duty are made on

American Domestic Cookery, There is no opportunity of attaining a knowledge of finuch or too little dimers are extremes not uncommon and family management at school; and during vacations, the latter is in appearance and reality the effort of poall subjects that might interfere with amusement are avoided.

seller, Freenisa Locas, has published another small ranks of life, returns to reside at her father's house volume, that ought to be in the hands of every Mis. offer completing her education, her introduction to the after completing her education, her introduction to the dishes, and illustrates the necessary art of curving ment of fashionable circles, rather than to stoop (as by numerous engravings. The price of the work is she would conceive it,) to undertake the arrangement of a family, though by that means she might in various of a family, though by that means she might in various the satisfaction and comfort of her parameters. ment of fashionable circles, rather than to stoop (as teel appearance without extravagauce, regulate their ways augment the satisfaction and comfort of her parents. On the other hand, persons of an inferior sphere, and especially in the lower order of middling life, are almost always anxious to give their children such advantages of education as themselves did not possess. Whether their indulgence be productive of the happiness on kindly aimed at, must be judged by the effects, which are not very favourable, if what has plessure, presented by the theatre and other dissipations, it is probable sho would soon make a compari- rank of those invited. did not give to the latter additional relish.

If we carry on our observations to married life, we shall find a life of employment to be the source of unit the consumption of a family; and though in large numbered pleasures. In ottend to the nursing, and parties she is so much assisted as to render this knowor least early instruction of children, and rear a healthy ledge apparently of less consequence, yet she must at progeny in the ways of piety and usefulness:—to pre- all times feel the deficiency; and should not fail to aeside over the family, and regulate the income allotted quaint herself with an attainment, the advantage of to its maintenance: to make home the sweet refuge of a husband fatigued by intercourse with a jarring world; to be his enlightened companion and the chosen friend of his heart; these, these, are woman's duties! and tention to guests may be again the mode, as it was in delightful ones they are, if happily she he married to the commencement of the last. Some people haggle a man whose soul can duly estimate her worth, and meat so much, as not to be able to help half a dozen who will bring his share to the common stock of felt persons decently from a large tongue, or a sirloin of city. Of such a woman, one may truly say, " Happy

When we thus observe her, exercising her activity and best abilities in oppropriate cares increasing excellence, are we not ready to say, she is the agent for good, of that benevolent Being, who placed her on earth to fulfit such sacred obligations, not to waste

the tulents committed to her charge?

When it is thus evident that the high intellectual attainments may find exercise in the multilarious octhe mistress of the house, can any one arge that the the mistress of the nonse, can any one map that the female mind is contracted by domestic employ? It is however, a great comfort that the duties of life are within the reach of humbler abilities, and that she whose chief aim is to fulfil them, will rarely ever fail to acquit herself well. United with, and perhaps to think of tamily management, let her not upon that crowning all, the virtues of the female character, is that well directed ductility of mind, which occasionally bends its attention to the smaller objects of life, knowing them to be often scarcely less essential than the greater.

Hence the direction of a table is no inconsiderable fort of her husband and those who partake their huspitallty.

verty or penuriousness to be genteel; and the former; when a girl, whose family moves in the higher of those who are not affluent.

Generally speaking, dinners are far less sumptuous than formerly, when bulf a dozen dishes were supplitress of a family. It teaches how to prepare and gay world, and a continued course of pleasures, per ed for what one now costs; consequently those whose cook on the must economical plan all sorts of good smade her at once that she was born to be the orna- fortunes are not great, and who wish to make a more than the was born to be the orna- fortunes are not great, and who wish to make a more than the was born to be the orna- fortunes are not great. fortunes are not great, and who wish to make a gen-

table accordingly.

Perhaps there are few incidents in which the respectability of a man is more immediately felt, than the style of dinner to which he accidently may bring home a visitor. Every one is to live as be can afford, and the meat of a tradesman ought not to emulate the entertuinments of the higher classes; but if two or three dishes are well served, with usual souces, the table-linen clean, the small sideboard neatly laid, and all that is necessary be at hand, the expectation of the been taught has not produced humility in herself, and husband and friend will be gratified, because no irreincreased gratitude and respect to the authors of her gularity of domestic arrangement will disturb the sebeing. Were a young woman brought to relish home cial intercourse. The same observation holds on a society, and the calm delights of agreeable occupal larger scale. In all situations of life, the entertainton, before she entered into the delinive scenes of ment should be no less suited to the station than to the fortune of the entertainer, and to the number and

The manner of carving is not only a very necessary branch of information, to enable a lady to do the honours of her table, but makes a considerable difference

which is evident every day.

Indeed, as fashions are so fleeting, it is more than probable that before the end of this century, great atheef; and the dish goes away with the sppearance of the man who can call her his wife. Blessed are the having been grawed by dogs. If the daughters of the children who call her mother." family were to take the head of the table under the direction of their mother, they would fulfil its duties with grace, in the same casy manner as an early practice in other domestic affairs gradually fits them for their own future houses. Habit alone can make good carvers; but some principal directions are hereafter given, with a reference to the annexed plates.

The mistress of a family should always remember attainments may find exercise in the multilarious oc-cupations of the daughter, the wife, the mother, and depend on the eye of the superior; and consequently that nothing is too triffing for her notice, whereby waste may be avoided; and this attention is of more importance now that the price of every necessary of

life is increased to an enormous degree.

others who are more experienced, and acquaint her-self with the necessary quantities of the several articles of family expenditure, in proportion to the numbar it consists of, the proper prices to pay, &c. &c.

A minute account of the annual income, and the times of payment, should be taken in writing; likewise an estimate of the supposed amount of each artiof expense; and those who are early accustomed to calculations on domestic articles, will acquire so ac-The mode of covering the table differs in taste. It curate a knowledge of what their establishment rethe mud, ornamental education commences; and it is not the multiplicity of things; but the choice, the quires, as will give them the happy medium between ever after takes the lead; thus, what should only be dressing, and the next pleasing look of the whole, prodigabily and parsimony, without acquiring the charthe embellishment becomes the main business of life, which gives respectability to her who presides. Too actor of meanness.

useful, as great readiness at figures. Accounts should ing them. She should also be acquainted with the be regularly kept, and not the smallest article omitted comparative prices of provisions, in order that she may to he cutered; and if balanced every week and month, be able to substitute those that are most reasonable, printed to each different article, and keep the money in separate purses; as house, clothes, pocket, education of children, &c. Which ever way accounts be entered, a certain mode should be adopted, and strictly adhered to Many women are unfortunately ignorant of the state of their husband's income; and others are only made acquainted with it, when some specumake a false estimate of what can be afforded; and it ing each other, squander money in ways that they would even wish to forget: whereas marriage should be a state of mutual and perfect confidence, and similarity of pursuits, which would scene that happiness it was intended to bestow.

There are so many valuable women who excel as wives, that it is a fair inference there would be few regulated by every one's fortune and rank Some laextravagant ones, were they consulted by their hus dies, not deficient in either, charge themselves with selves. bands on subjects that concern the mutual interests of giving nut, once in a month, to a superintending serbands on subjects that concern the initial interests of giving and once in a mount, to a superinciand set-both parties. Within the knowledge of the writer of vant, such quantities of household articles, as by ob-these pages, many families have been reduced to po-tervation and calculation they know to be sufficient, wenty by the want of openness in the man on the sub-ject of his affairs; and though on these occasions the manually laid in for very large families in the country. ject of his affairs; and though on these occasions the women were blanied, it has afterwards appeared, that Should there he several more visitors than usual, they they never were allowed a voice of inquiry, or suffer-

imprudent

knowledge and activity of the father.

Some excuse was offered; -to which she replied; - "Such is the sum I have allotted to house keeping should it be exceeded one week, the next must repay it. The general will have no public day this week." The fault was never repeated.

"March's Pamily Book-keeper," is a very useful course of a y work, and saves much trouble; the various articles of the practice. expense being printed, with a column for every day in the year, so that at one view the amount of expenditure on each, and the total sum, may be known.

Ready money should be paid for all such things as

come not into weekly bills, and even for them a check some part of every person's fortuce should be de-is necessary. The best places for purchasing should voted to charity, by which, "a pious woman will be attended to. In some articles a discount of five build up her house before God, while she that is foolper cent is allowed for ready money in our large citics and those who thus pay are usually the best served Under the idea of purchasing cheap, many go to new shops, but it is safest to deal with people of establish ed credit, who do not dispose of goods by undersclling.

To make tradesmen wait for their, money injure: them greatly, besides that a higher price must be paid : and in long bills, articles never bought are ofice charged. Perhaps the irregularity and failure of payment, may have much evil influence on the price of given soon in the morning, there will be more time to various articles, and may contribute to the distruction execute them, and servants, by doing their work with of many families from the highest to the lowest.

Thus regularly conducted, the exact state of money affairs will be known with caso; for it is delay of pay ment that occasions confusion. A common place book of oseful knowledge, and other observations, as are mended, when the nature of the accident will allow, as of oscital knowledge, and three control of attention to what is advised, or supposing things too mitted to be worth hearing, are the causes why so much useful affairs transacted before amusements were not useful affairs transacted before amusements were not the control of the ignorance prevails on necessary subjects, among those who are not backward in frivolous ones.

purposes. It is not unusual among lower dealers to they are advancing in price; and many who supply fancy articles are so successful in persuasino, that purchasers not unfrequently go far beyond their original

people aught to form their conduct on their circumcan easily account for increase of consumption, and ed to reason upon what sometimes appeared to them vice versa. Such a degree of judgment will be respec-Many families have owed their prosperity full as terested in the ignorance of their employers; and it much to the propriety of female management, as to the they are, their services will not compensate for want of linnesty

The lady of a general officer observed to her man When young ladies marry, they frequently continue cook, that her last weekly bill was higher than usual, their own maid in the capacity of house-keeper; who, as they may be more attached to their interest than strangers, become very valuable servants. To such, the economical observations in this work will be as useful as the cookery; and it is recommendable in them to be strictly observant of both, which, in the course of a year or two, will make them familiar in

> It is much to be scared, that for the weste of many of the good things that God has given for our use, not abuse, the mistress and servants of great houses will

hereafter be called to a strict account.

ish, (i e leuds nothing to the Lord,) pulls it down with her hands" No one can complain of the went of relief which would add greatly to their comfort, and which being prepared from superfluity, and such materials as are often thrown away, the expense would not be felt. In the latter part of this work some hints for preparing the above are given.

ily good hours, especially early breakfast, a family is more regular, and much time is saved. If orders be case, will be more equal to it, and fewer will be ne-

It is worthy of notice that the general expense will be reduced, and much time saved, if every thing h-

If the economy of time was duly considered, the lowed, and a regular plan of employment was daily aid down, a great deal might be done without hore It is very necessary for a nomen to be informed of or fit gue; and it would be a most pleasant retrospec the prices and goodness of all articles in common use, at the end of the year, were it possible to enumerate or fat gue; and it would be a most pleasant retrospect all the valuable acquirements made, and the good actions performed, by an active woman-

if the subject of servants be thought ill-timed in a book upon family arrangement, it must be by those

thenaps few branches of female education are so and of the best times, as well as places, for purchas [conded by those who are to execute orders. It behoves every person to be extremely careful whom he takes into his service; to be very minute in investigating the character he receives, and equally cautious See the income and outgoings will be ascertained with when they will answer as well for others of the same and scrupulously just in giving one to others. Were facility, and their proportions to each other duly obtained, but which are more costly. A false notion of this attended to, many had people would be mempaciserved. Some people hix on stated sums to be approportionable ascended to each different article, and keep the money had sometimes nover is used. Were this in them. It may be fairly asserted, that the robberty, error avoided, more money would remain for other or waste, which is but a milder epithet for the unfaithfulness of a servant, will be laid to the charge of put off a larger quantity of goods, by assurances that that muster or mistress, who knowing, or having well founded suspicions of such faults is prevailed upon by false pity, or entreaty, to slide him into another place. There are however some who are unfortunatelative project, or profitable transaction, leads them to intention, even to their own future disquiet. Some ly capricious, and often refuse to give a character bethings are better for keeping, and, boing in constant cause they are displeased that a servant leaves their too often happens that both parties, far from consult-consumption should be laid in accordingly; such as service: but this is unperdonable, and a beloute ing each other, squander money in ways that they paper, soap, and candles. Of these more hereafter. aper, soap, and candles. Of these more hereafter. robbery, servants having no inheritance, and depending on their fair name for employment. To reluse countenance to the evil, and to encourage the good people ought to form their conduct on their stances; but it is presumed that a judicious arrange-servant, are actions due to society at large; and such ment according to them, will be found equally advantage on homest, trugal, and attentive to their duties, tageous to all. The minutize of management must be should be liberally rewarded, which would encourage merit, and inspire servants with zeal to acquit them-

It may be proper to observe that a retributive justice usually marks persons in thit station somer or later, even in this world The extravagant and ldle in servitude, are ill prepared for the industry and sobricty on which their own future welfare so essentially depends. Their faults, and the attendant punishment. comes home when they have children of their own; and sometimes much somer. They will see their own folly and wickedness perpetuated in their offsprings whom they must not expect to be batter than the example and instruction given by themselves.

It was the observation of a sensible and experiences woman, that she could always read the fate of her servants who married, those who had been faithful and industrious in her service, continued their good hab-its in their own families, and became respectable members of the community:- those who were the con-trary, never were successful, and not unfrequently were reduced to the parish.

A proper quantity of household articles should be always ready. and more bought in before the others he consumed, to prevent inconvenience, especially in the country.

A bill of parcels and receipt should be required. even if the money be paid at the time of purchase and, to avoid mistakes, let the goods be compared

with these when brought home.

Though it is very disagreeable to suspect any one's honesty, and perhaps mistakes have been unintentionwith her hands" No one can complain of the wont of sl; yet it is prudent to weigh mest, sugars, &c. when gifts to the poor in this land - but there is a mode of brought in, and compare with the charge. The butch, er should be ordered to send the weight with the meat. and the conk to file these checks, to be examined whan the weekly bill shall be delivered.

Much trouble and irregularity are saved when there is company, if servants are required to prepare the table and sideboard in similar order daily.

All things likely to be wanted should be in readiness; sugars of different qualities kept broken, currants washed, picked, and perfectly dry: spices pounded, and kept in very small bottles closely sorked; not more than will be used in four or five weeks should be pounded at a time Much less is necessary than when builed whole in gravies, &c.

Where nonnings or suppers are served (and in every house some preparation is necessary for accidental visitors,) care should be taken to have such things in readiness as me proper for either; a list of several will be subjoined, a change of which may be agreeble, and if duly managed, will be attended with little expense and much convenience.

A ticket should be exchanged by the cook for every lonf of bread, which when returned will show the number to be paid for ; as tallies may be altered, un-

less one to be kept by each party.
Those who are served with brewer's heer, or any other articles not paid for weekly or on delivery, should keep a book for entering the dates; which will not who do not recollect that the regularity and good man only serve to prevent overcharges, but will show the nagement of the heads will be insufficient, if not see whole year's consumption at one view.

The domestic account Book, by E. J. Coale and F. M. Wills,-Price S1, for sale in our Book Stores, is well arranged for this purpose, having lines ruled and printed for the different articles used in house-keeping and or every day in the year .- Edit. Am. Far.

An inventory of furniture, linen, and china, should he kept, and the things examined by it twice a year, or offener if there he a change of servants; into each use; and they should be shaken occasionally. When ble, yet much must be left to the discretion of the of whose care the articles used by him or her, should be intrusted, with a list, as is done with plate. Tickets of parchment with the family name, numbered, and specifying what bed it belongs to, should be sewed on each feather-bed, bulster, pillow, and blanket. Knives, forks, and house-cloths, are often deficient; these accidents might be obviated, if an article at the head of every list required the former should be pro-tiling the lard, reduces the price of washing consider be at hand, and she must proportion them until the duced whole or broken, and the marked part of the lably. linen, though all the others should be worn out. The inducement to take care of glass is in some measure water the night previous to removed, by the increased price given for old flint operation with less friction.

Soap should be cut with a car at a lower charge than cut glass, may buy them that will make a long squar made in moulds, of which there is a great variety that and kept out of the air two look extremely well, if not placed near the more beautiful articles.

Best will keep good in a dry warm room for some consumption, years; therefore when bread is cheap it may be bought. Some of the

to advantage, and covered close.

Sugars being an article of considerable expense in all families, the purchase demands particular attention. The cheapest does not go so far as that more refined and there is a difference even in the degree of sweet-ness. The white should be chosen that is close, heavy, and shining The best sort of brown has a bright gravelly look, and it is often to be bought pure as imported. East India augura are finer for the price, but not so strong, consequently unfit for wines and sweat-meats, but do well for common purposes, if good of their kind. To prepare white sugar, pounded, rolling it with a bottle, and sifting, wastes less than a mortar.

Candles made in cool weather are best; and when their price, and that of soap, which rise and fall togs. whites made cakes and puddings heavy; on the conther, is likely to be higher, it will be prudent to lay trary, if heaten long and separately, they contribute in the stock of both. This information the chandler greatly to give lightness, are an advantage to paste, can always give : they are better for keeping eight or ten months, and will not injure for two years, if properly placed in the cool; and there are few articles that better deserve care in buying, and allowing a due quantity of, according to the size of the family

Paper, by keeping, improves in quality; and it hought by baif or whole reams from large dealers, will be much cheaper than purchased by the quire. The sur prising increase of the price of this article may be accounted for by the additional duties, and a larger consumption, besides the monopoly of rage; of the latter sumption, best and there is some scarcity, which might be ob- holes. Fenders, and tin linings of viated if an order were given to a servant in every should be painted every year or two. family to keep a bag to receive all the waste bits from cuttings out, &c.

Many well-meaning servants are ignorant of the best means of managing, and thereby waste as much as would maintain a small family, besides causing the mistress of the house much chagrin by their irregularity; and many families, from a want of method, have the appearance of chance rather than of regular aystem. To avoid this, the following hints may be useful as well as economical :-

Every article should be kept in that place best suited to it, as much waste may be thereby avoided, viz.

Vegetables will keep best on a stone floor if the air be excluded.—Meat in a cold dry place—Sugar and is in a stone jar on a hot iron hearth: or by putting sweatments require a dry place; so does salt.—Can-the vessel into a sancepan of water, called a water-bath. dies cold, but not damp.—Bried meats, hams, so the life chocolate, ooffee, jetty, gruel, bark, &c. be suffersame - All sorts of seeds for puddings, saloop, rice, ed to boil over, the strength is lost. &c. should be close covered to preserve from insects ; but that will not prevent it, if long kept.

Bread is now so heavy an article of expense, that vance to sift, without dispersing the dust of the ashes, all waste should be guarded against; and having it by means of a covered tin bucket out in the room will tend much to prevent it. Since Small coal wetted makes the the searcity in 1795 and 1800, that custom has been much autopied. It should not be cut untit a day old, dees lightly wet, give a great degree of heat, and are

Earthen pans and covers keep it best.
Straw to lay apples on, should be quite dry to prevent a mosty taste.

Large pears should be tied up by the stalk.

Basil, savoury, or knotted marjoram, or thyme, to be used when herbs are ordered; but with discretion, as they are very pungent-

The best means to preserve blankets from moths is to fold and lay them under the feather-beds that are in soiled, they should be washed, not scoured.

the lather becomes weak, add more. The new im-

Many good laundresses advise scaping linen in warm to the different dishes served at the same time. water the night previous to washing, as facilitating the

Soap should be cut with a wire or twine, in pieces that will make a long square when first brought in, and kept out of the air two or three weeks, for if it ok extremely well, if not placed near the more beau-ful articles.

The price of starch depends upon that of flour; the hard gradually. Thus, it will save a full third in the

> Some of the lemons and oranges used for juice should be pared first to preserve the peel dry; some should he halved, and when squeezed, the pulp cut out, and the outsides dried for grating. If for boiling in any liquid, the first way is best. When these fruits are cheap, a proper quantity should be bought and prepared as above directed especially by those who live in the country, where they cannot always be had; and was held at Parker's tavern in Surry country, on they are perpotually wanted in cookery.

When whites of eggs are used for jelly, or other purposes, contrive to have pudding, enstard, &c. to employ the rolks also. Should you not want them for several hours, beat them up with a little water, and put them in a cool place, or they will be hardened and usaless. It was a mistake of old, to think that the greatly to give lightness, are an advantage to paste, and make a pretty dish heaten with fruit, to set in

cream, &c.

If copper utensils be used in the kitchen the cnok should be charged to be very careful not to let the tin be rubbed off, and to have them fresh done when the least defect appears, and never to put by any soup; gravy, &c in them, or any metal utensal; stone and earthen vessels should be provided for those purposes, as likewise plenty of common dishes, that the table communications as they way deem proper, to the set may not be used to put by cold meat.

Tin vessels, if kept damp, soon rust, which causes holes. Fenders, and tin linings of flower-pots, &c.

Vegetables soon sour, and corrode metals and elszed red ware, by which a strong poison is produced. Some years ago, the death of several gentlemen was occasioned at Salt-hill, by the cook sending a ragout to the table, which she had kept from the preceding day in a copper vessel badly tinned.

Vinegar, by its acidity, does the same, the glazing

being of lead or arsenic.

To cool liquors in hot weather, dip a cloth in cold water, and wrap it round the bottle two or three times, then place it in the sun; renew the process once or twice

The best way of scalding fruits, or boiling vinegar,

The cunk should be encouraged to be careful of coals and cinders, for the latter there is a new contri-

Small coal wetted makes the strongest fire for the back, but must remain untouched until it cakes Cinbetter than coal for furnaces, ironing-stores, and orens.

The cook should be clurged to take care of jelly-bags, tapes for the collared things, &c. which if not serfectly scalded, and kept dry, give an unpleasant davour when next used.

it to cracke

In the following and indeed all other receipts, though the quantities may be as accurately directed as possisiled, they should be washed, not scoured.

Soila, by softening the water, saves a great deal of require more or less of the flavour of spices, salt, garsoap. It should be melted in a large jug of water, lie, butter, &c. which can never be ordered by gen-some of which poor into the tubs and boiler; and when eral rules; and if the cook has not a good taste, and attention to that of her employers, not all the ingrediprovement in soft soap is, if properly used, a saving of ents which nature and art can furnish, will give exquinear half in quantity; and though something dearer site flavour to her dishes. The proper articles should

Those who require maigire dishes will find abundance in this little work; and where they are not strictly so, by suct or bacon being directed into stuffings, the cook must use butter instead; and where meat gravies, (or stock as they are called,) are ordered;

those made of fish must be adopted.

#### AGRICULTURE.

VIRGINIA AGRICULTURAL MEMORIALA Recently presented to Congress.

The first General Meeting of Delegates from the United Agricultural Societies of Virginia the 10th, 11th, and 12th inst.

The Delegates having, according to the articles of union, organized themselves, formed rules and regulations for their government, proceeded to the appointment of their officers.

Gen. John Pegram, elected President: Nicholas Faulcon, Vice President. Edmund Ruffin, Secretary. Theophilus Field, Treasurer.

Resolved, That the annual meetings of the Delegates hereafter be held at French's tavern, in the town of Petersburgh, on the first Wed-

nesday in December of each year.

Resolved, That the United Societies be requested to transmit such of their agricultural adjourned meeting to be held on the first Monday in June next, and to the annual meetings

A memorial remonstrating against the protection of manufactures, was unanimously upproved, ordered to be signed by the President, and transmitted to our Representatives, to be presented to the Congress of the United States. The meeting was then adjourned to the first Monday in June.

At a General Meeting of Delegates of the United Agricultural Societies of Virginia, at William Parker's tavern, in the county of Surry, on the 10th of January, 1820, present,

Thomas Cotke, Delegates from the Agricultural Sq. Edna'd Ruffin, Ciety of Prince George. John Edminds,

| Delegates from the Agricultural Science Blow, | Delegates from the Agricultural Science Blow, George Blow, Wm. P. Ruffin, ciety of Sussex. IVm. J. Cocke.

Micholas Faulcon, Charles H. Graves, Delegates from the Agricultural Society of Surry. Richard Cocke.

John Pegrum, Delegates from the Agricultural Se-Roger A. Jones, 5 ciety, Petersburg.

Theopilus Field, Delegates from the Agricultural Society of Brunswick. Henry Lewis.

Cold water thrown on cast-iron, when hot, will cause

The following Memorial being adopted unani-t

honourable Houses, us a portion of the independentalogue of oppressive taxes, which, barely to can fulfil our own personal engagements, and dent agriculturists of Virginia. In that charactered, makes the American citizen shudder; but many are reduced to the necessity of sacrificing ter, we design not to harrass our representatives under the continually accumulating weight of their property to satisfy their creditors. Under with high-wrought pictures of distress, which which the foreign artizan must labor; add still these circumstances, we hope that your honoracannot remove. Neither can we bring ourselves protecting duties, a considerable capital unempectful remonstrance, against any increase of to detail, in the language of complaint, much ployed, and numerous labourers starving in burthen beyond the necessary expenses of our less of reproach, thuse evils which we endure in common, not only with every class and defences, and you exhibit a series of advantages government. One favorite argument, insisted on the side of the American manufacturer, on by the manufacturers, is so offensive a libel nomination of our fellow citizens, but with al- which would seem to put competition in our on the great hody of the American people, that most every rank and description of civilized own market, entirely out of the question. If indignation will not suffer us to pass it unnotice. man. We solicit not the fostering care or pa-with such overwhelming odds in his favor, the ed, to wit: that the establishment of home ma-tronage of the Legislature, to allevinte, by boun-ties, monopolies, or protecting duties, calami-manufacturer, we must conclude either that to their duty in time of war. Thus more than ties in their nature as inevitable as they are capital is wanting to fit him out for the trial, or insinuating, that the millions of independent, incurable, by legislative interposition, because he scorns the consideration of such profits, as high-minded agriculturists who people our exresulting from a combination of circumstances would satisfy his opponent. If the former conductive density, constituting at once the pride over which our Legislature can exercise no conclusion be true, it demonstrates the impropriety and the atrength of the nation, are to be taught trol. War is an unnatural and calamitous state; of attempting, at this time, to force manufact the value of independence, and the necessity of the value of the pride of the nation, are to be taught the value of independence, and not the pride of the pride of the nation, are to be taught the value of independence, and not the pride of the pride of the nation, are to be taught the value of the pride of the nation, are to be taught the value of the nation, are to be taught the value of the pride of the nation, are to be taught the value of the pride of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the value of the nation, are to be taught the nation, are to be taught the value of the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are to be taught the nation, are less severely by being deferred. The transition cessary, and cannot be forced by law, we had ruble number of manufacturers acattered through from war to peace was sudden, and found us, better await its slow growth, from the gradual the country. In every nation with whose inlike the rest of the world, unprepared. But operation of the usual causes, and whenever it ternal affairs we are familiarly acquainted, the we can bear patiently the penalty of our own arrives at sufficient maturity, manufactures will lunded interest has been proverbial for liberality, improvidence, convinced that our distresses follow without force. But if, on the other hand, in comparison with any other class; and we will be but temporary, and recollecting that our manufacturers are so impatient to enrich proudly believe that the duy will never arrive they were preceded by twenty years of almost themselves, as to disdain the gradual accumulation the American yearan will not suffer himuninterrupted prosperity. In this frame of tion of moderate profits, we submit then resmind, which we recommend to the imitation of pectfully to your wisdom the impolicy of subour more discontended brethren, we have only
iccting so large a portion of your fellow-citizens
to solicit, respectfully hat earnestly, from your to such unreasonable cupidity—the laying them
wisdom and experience, that we be left to ourat the mercy of an association, who (competiinproar." We wish not to be placed under such
a protections association when their projects for scives to disembarrass our own affairs by active tion being removed) will no longer consider the protections, especially when their projects for industry and strict economy, instead of being intrinsic value of an article, or what price would our safety are accompanied by the alarming deplaced at the mercy of interested individuals, afford a fair profit to the manufacturer, but-how claration, that they consider the election of a who would flatter us with relief, by abridging much the necessities of the consumer would President, a Governor, or a Representative of our comforts, increasing our expenses, and of enable them to extort. Of this spirit, we had the People, as uninteresting in comparison with verting to their own pockets that portion of the a sufficient specimen during our late war with a question on the fabrication of druggets, caliproduce of our labour, which, differently ap Great Britain.

plied, might serve to extricute us from our pre- In reply to these arguments, we are told that sent difficulties. The undefined projects and many manufacturing establishments have been wants by our own labor, and thus being enabled extravagant claims of the manufacturing assu-runned for want of protecting duties. We doubt to insulate ourselves from the other members of elutions, collected from their circulars, reports not the fact of rum; but we more than doubt the human family, we look upon as a mere of committees, and other publications, could the cause assigned for it. We strongly suspect, phantom, conjured up for the purpose of turing alone lead us to apprehend that we may not be that, on fair investigation, most of the failures as into a prohibitory system. Could such a vileft to this repose, which we so carnestly soil- may be accounted for very differently. For in- sion be realized, we would deprecate its influoit, and which the difficulties of our present sistance: 1st. By embarking in business on fictions of imperiously demand. We have altitus capital; the sudden recal of which, lett science and duration of liberty. We do not ways suspected the policy of forcing any branch the adventurers, ns they originally were, without envy the condition of the Chinese, the only or protecting duties. But, without energy in speculations uncointed with their factories, and, by the failure amongst whom science has been retrograde for the discourse of the condition of the chinese in the reserve ways. to the discussion of the general question, we of these ruining their establishments. 3d. From a thousand years—the whole energies of the huwould respectfully suggest, that no period more the imputience of growing rich by the gradual man mind reduced to the service talent of imi-unfavorable than the present could be selected accomplation of moderate gains, stimulating tation, and man degraded to a state of abject, for the commencement of an experimental course them to attempt establishments and projects proveiling slavery. Compare the timid slaves of political economy, beginning with the taxa beyond their means. Few, we believe, at those creeping through shallows in his clumsy junk, tion of the many for the emolument of the few woo commenced with real capitals, and pur with the American seaman, " among the tune When we consider the taxes already imposed sucd their business prudently have failed oling mountains of ice of the arctic circle, peen foreign manufactures, (averaging perhaps to improve their fortunes. The greater part of netrating to the antipodes, and engaged under twenty-five per cent.) and estimate the amount this description of persons acknowledge, with the frozen serpent of the south. Yet we know of freight, double commissions, insurance, and honest condor, that they are sufficiently protect that he has not been squeezed into this hardy various smaller charges incident to snipping and ed. But, as we have forced none of our fenow form, or inhaled this daring spirit, from the transporting to this country the products of the citizens to embark their capitals in the preca-constraints of a watchful and suspicious governforeign artisan, a moderate calculation will give rious speculation of establishing manufactures, ment, but that, through a wise and saturally to the American manufacturer an advantage of perhaps before their time-may, as they have APRO DOG OFFI

Evoluntarily involved themselves in ruinous pro- Vale Circular of the Northorn Manufacturers

It to this immense advantage over the Euro-Jiccts, not from patriotic motives, but views mously, was ordered to be signed by the Pre-pean competitor, we add the cheap terms on purely selfish and founded on the fallacious sident and Secretary of the Delegation, and which the chief necessaries of life, meat, bread, prospect of a protracted war, we see no reason transmitted to our Representatives, to be laid before the Congress of the United States.

Your memorialists present themselves to your py exemption from the whole of that frightful when it is with the utmost difficulty any of us their wisdom could not have anticipated, and further, on the authority of the advorates of ble houses will not deem unreasonable our rescoes, and penknives.\*

The specious vision of supplying all our own

neglect, a generous nature has been suffered to many subjects. I am induced to offer you my portion, by following the plan he has directed.

take its own way to perfection." rests of men and of nations are promoted by free the able remarks of Thomas Mendell on that for the broad letter of his instructions, i.e. his and extensive intercourse, one with another. The great object of nations ought to he, to prothe Farmer; and I must first observe, that I followed without intention of destroying the oure the greatest possible quantity of produce. agree with Mr. Mendell generally, but think I carlie; and if it had been so effectual, it cerwith the least possible expenditure of lahour and have seen soils, where fall ploughing as a pre-liainly would have been a matter of general noof capital; this can be effected only by permit-[paration for a corn crop, did not answer a good] toricty. ting the people to purchase such articles as they purpose; I think the exceptions are the level still Although I had this subject in ovo, yet it was can buy cheaper than they can fabricate. Thus clay, and the gravelly soil; and the reasons not my intention to have brought it forth at this would be produced a most unrestricted state of why a fall ploughing as a preparation, for corn time, till I saw the piece alluded to. I there-commerce, permitting every country to coupley does not answer on these soils, are very differ-fore concluded to keep the subject alive, till its capital and industry to the greatest advantient and apparently contradictory; the water some more skilful hand should give it a finishing tage; in devoting them to pursuits adapted to lays too much on the first, and soukes or runs stroke. the soil and climate of each, and consonant too fast through the last. I have seen the level Three years past, a neighbour of mine ploughwith the genius of their respective inhabitants allumine (perhaps a little mixed with fullers ed up an old clover field in the fall, fully set For these, and other considerations equally co-gent, your memorialists feel themselves cun-and winter rains, would lay on it until late in heing to his mind and the weather tempting, he strained to remonstrate against the pretensions the spring, and as it dryed it congealed and had gave it a second ploughing about the first of of the manufacturing interest, as of a highly the appearance of being liquified, would crack December; the next summer he ploughed in dangerous tendency. Whether considered with and become so hard, that it was much worse to the stubble of the oats, which he had made his respect to their influence on our government, plough in the spring than it had been in the fall ; spring crop. In the fall he sowed wheat, and by establishing the precedent of investing one and the evil did not stop here, when ploughed in the spring following clover among the wheat; elass with peculiar privileges and immunities at in the spring, it turned up in large hard clouls, scarcely a spire of garlic has peeped forth from the expense of the rest; a measure pregnant which is extremely difficult to pulverize, and the first hreaking up, and it is probable never with the most fearful consequences, being as inas it regards the silex, or gravelly lands, they will. But mark this! when the out stubble was consistent with the principles of justice, as inashorb water very fast and is most commonly ploughing in, I examined the earth, and found the principles of justice, as inashorb water very fast and is most commonly ploughing in, I examined the earth, and found poor soil, and manure does not last long upon it full of bulbs perfectly alive. It did not aption; their tendency to demoralize our people them, and I think that the large quantities of pear that the frost of winter, had destroyed me by the introduction of sanggling, an evil inse-sonw and rain water that soakes through it in a hundred, nor was it to be expected; for if parable from high protecting duties, and one from which the United Navies of Europe and America could not guard a coast as extensive as ones; their effect on our revenue, already di-manured, takes most of the strength of that ploughing, it is really safer than when naturally coast as extensive as manured, takes most of the strength of that ploughing, it is really safer than when naturally minished by protecting duties, without product manure beyond the reach of vegetation, for it fixed; some other theory or philosophy for the ing any corresponding energy on the part of our appears evident that the water that is let down destruction, must therefore be inquired into; manufacturers, and which, if further diminished into the sub-soil is modely or a kind of earthy for a false theory will sarely lead to a false pracby an increase of tarill, and by deriving capital ley; and which is the most valuable for vegeta-tice. from the purchase of public lands, must necestion, and if it is ploughed and put in a light loose. The habits of other bulbons roots, will form a sarily call for a system of internal taxation, in state, it would certainly lose much more in clase to a true theory. These such as Hyathe present state of our affairs, productive of this way than if left unploughed until the cynths, Snow Drops, &c. during summer lay incalculable distress. Commerce must decline spring, and I am further of the opinion, that dormant, and do as well in our drawers as in under such a system : with its decline, our sea-much of the land in Maryland shews siles on its the earth. In the cool of the fall, they begin to men must diminish, and our gallant Navy, after surface now, that did not when in a state of send out a scape and strong radicles, the scape achieving more than our fundest hopes could an | nature, (and the greater the quantity of silex being stopped near the surface of the earth by the ticip te, dwindle into insignificance. This suorifice tou, we are called upon to make, that be en produced on all lands that have been much off-sets and coats, if a coated bulb scales in a our manufacturers may be enabled to furnish us ploughed, that had a sub-soil of siles; by the scaly bulh .- It is at this critical moment, that with cottons and woollens, fifty per cent, higher

lists pray that no further protection be granted to manufactures, excepting such as, in your intates. wisdom, you may deem essential for national defence, and that the existing duties be so reduced, as to produce the greatest possible revenue; and we revert to our original prayer, to be left to ourselves to discubarrass our own atfairs, without ucing called on to repair the losses of any other class, still less to mivance them to wealth and power, at the expense of the bests interests of the American people.

JOHN PEGRAM, President of the Helegation. EDMUND RUFFIN, Secretary.

FOR THE AM. BICAS PARMER,

Sr. Liomingo, January 12th, 1820. MB. Skinnen,-Finding different opinion four farmers. exist amongst our most experienced farmers on I have no doubt, but Mr. Bond got rid of hislyreo, in the Farmer .- Edit.

We are firmly persuaded, that the best inte-corn crop, which I have been induced to do from the developed, to make it a matter of certainty;

Yours, &c. A YOUNG FARMER.

\* Easy with 1st, the plough-2nd, the roller-3rd, he cultivator. - Edit.

TO THE EDITOR OF THE AMERICAN FARMER,

# Means of Destroying Garlic.

Elunoped, January 12th, 1820. DEAR SIR .- In your number -. I read a paper on the means of eradicating Wild Garlic : me of the must disagreeable weed tenants of either pasture or seed ground. Its continuance has been a standing reproach to the ingenoity of

opinion on fall pluughing as a preparation for a But there must be some secret principle, yet to

the more barren is the land) and that it has cold, and the bulbs in full vigur, they produce waters taking down the surface soil through a ploughing makes a baulk and interrupts this than we could procure them in a foreign market. the fissures of a loose siles sub-soil, and by this supportant vegetable process, that is forming a. With this view of the subject, your memoria- process in time the sub-soil becomes the surface new progeny to succeed the old bulb, and it is soil, and which evil, fall ploughing greatly faci- but too plain, that all plaughing and turning before this fall growth of Radicles and Scapes, would be no more than taking them out of one drawer and placing them in another; precise time, then is every thing, and the first ploughing should not be early (as an industrious man would he likely to make, believing that winter frusts. was the destructive power,) but late in the fall; and I am convinced, that the winter and not the fail ploughing, was the ellectual one in the field I have mentioned. Following the same cive, will teach us that there is a period to the life of muther bulh, which we may compute at 5 years or thereabouts;\* two for arriving at puberty, and

For a very interesting and ingenious treatise on the economy of vegetation corroborating in a great measure the views here presented by sylvanus, the reader is referred to Darwin's Phytolog a, page When room can be had the whole chapter shall be

forming of off-sets is interrupted the mother a magazine, so limited however in its circula- sisting of between 50 and 100; and the same bulb will die a natural death of course, without thon in this quarter, that I done say, the infor- result was observed as in the preceding spring; a succession. Whilst the Junior bulbs being pration it contains, will be new to nine-tenths in many cases gun issuing from the old wounds, equally interrupted in forming coats, will become in the members of the society. It was address-but no worms, in any instance, where the to-sickly and unable to stand the necessitudes of ed to Doct. Mease, Editor of the Archives of bacco had been applied. The last sommer I soasons, or the rude displacements of the plough. Useful Knowledge, and dated at This I consider the true theory in substance. though there are many particulars yet wanting, to complete a perfect theory and practice.

It is probable that when the hulbs are once interrupted at the most essential time, i. e. radieating, that thep are not ready to fall exactly into the same periods again. I am led to believe this, because I have seen them raising their spiry scapes towards fall, in ground that was fect on the garlic; for the bulbs were without radicles at that time, but it is highly probable that they began to shoot early, to make up for the they began to shoot early, to make up for thest time. If this be so, the second fall ploughtime. Early in August, for the most part, I known around me. ing, (i. e. the 2d year) should be early, say Sep- find the worms have ussumed the chrysalis state, tember; an inspection, as before said, would and soon after, say 8 or 10 days, are transdetermine this point, and leave but one item to formed into flies, when they immediately begin be settled, i. e. how many crops are absolutely to deposit their eggs, which are suon hatched necessary to reach the lifetime of the mother juto worms; and thus the round of transformabulbs. I would therefore recommend as a safe tions common to the insect tribes is completed. practice, some extension beyond what was done in the field above mentioned. Thus, a plungh preying upon the soft inner bark, which is the ing in November or December, and a spring crup insedium of circulation for the sap; thus inter-of outs or barley; a ploughing in September or rupting the flow of the sup, the immediate con-October, and a crop of rye; and the following sea- sequence of which is great injury to the fruit, son, a crep of wheat with top dressing, and clo- and, limity, its destruction with the life of the ver in the spring .- I know that this is a good tree also. succession, if the rye is well taken off the field.

SILVANUS.

FOR THE AMERICAN FARMER.

PROCEEDINGS OF THE AGRICULTURAL SOCIETY

OF ALBEMARLE.

# ON PEACH TREES. No. 8.

Sin,

to myself to redeem the pledge on my part, other coverings have been used, thuy have failwhich was mutually given by several members led. In these cases the fly gets as close to its auch information as each might possess upon finding some fissure in the bark, there deposites certain subjects, must be my apology for offer-its eggs; but the tobacco, which in its essential ing the following partial performance of that qualities is so generally offensive to the insect taking a given quantity or distance say one hun-

engagement.

management of fruit trees-the kinds of each this, however, as it may, I will go on to detail species now held in estimation-with the reme- my experience as to the fact. I made my first dies for the maladies and destroying insects, to experiments with tobacco, three years past this which they are becoming more and more sub-summer, confined to 10 or 12 trees; the next ject; is a desideratum in domestic and rural spring I found that the trees still threw out gum ecenomy, which I will not mislead the society at the surface of the earth, and I apprehended in saying it will ever be in my power to supply. my experiment had failed; upon a close exami-But had it not been for the cause already as-nation, however, I discovered that the gam had signed, I should certainly have touched upon issued from the old wounds of the worms of the more branches of this subject than one, and not former year, not yet entirely healed. The suchave contented myself upon this one, with copy-ceeding summer, I extended the experiment to

of this insect, and accordingly various remedies tence of the flies." have been tried, some of which for a time have While to the worm state they do the mischief by

tion is to he taken a little before the hatching of the flies—the middle of July I find is carly enough here. I do not attribute the success of A late indisposition, at the time I had allotted parts of the country, where common straw and tribes, is so also, I suppose to this destructive A full and comprehensive account of the best fly, and thereby prevents its approach. He

three for generating off-sets. - If therefore the ing a paper which I published some years ago in all my peach trees of favorite selected fruit, conagain applied the tobacco upon a still larger scale, and this spring have again examined the Bremo, Fluvanna County, Vir'a. May 1812. trees. I find that those which have had the pe-" A remedy against the insect which deposites nefit of the tobacco application two successive its eggs in the bark of the peach tree, has be-lyears, have all their wounds entirely healed, come an object of importance in the cultivation and, in no instance, have I found the worms to of this valuable fruit. The peach trees all over have existed, where the tobacco has been used, Virginia have experienced the destructive effects and preserved through the period of the exis-

Since the above was written, I have consowed in turnips, where they had met with some promised success, but finally issued in disaptinued to experience uniform auccess from the interruptions, so that after the first great interruption in the late fall ploughing, it would be the tree, just at the surface of the earth, where young peach trees, in perfect health and full well to examine the ground from summer to the rougher and hurder bark of the trunk begins peacing, which I attribute entirely to the use of fall.—The ploughing in of the stubble in the to change to the softer churacter of that which that remedy, and although my neighbours comfield alluded to, had certainly no manner of ef. covers the roots. In this part the insect is able plain that their peach trees are many of them

JOHN H. COCKES

P. MINOR, Esq. Sec'y of the Agri'l. Society of Albemarles

FOR THE AMERICAN FARMER.

# ON HEDGING....No. 6.

BY CALEB KIRK, OF DELAWARE. [continued from No. 43, page 337.]

The last number on this subject being more fully demonstrated by a drawing, not only to assist the young husbandman in the best made mischievous insect in tobacco. As much cured of forming his live fences, but to give a view of what may be considered a specimen of a sufficient for a tree of moderate size. The te- finished hedge, or one that has attained materibacco, in a moist state se as to render it flexible, is bound around the body of the tree, just planting, and needs no further care but that of any the surface of the earth angular triangles cheesing a statuted manner type being thirteen years old from the time of any planting, and needs no further care but that of at the surface of the earth, encircling the part annual trimmings, shearing or clipping the extra where the flies deposit their eggs. This precaution is to be taken a little before the harding to be taken a little before the harding

It now becomes the next enquiry what is the cost of obtaining such a desirable inclusure, to of the tree merely; for I am informed in other protect and secure the labours of the farmer, and, at the same time, ornament his farm. The following is a correct estimate, as near as the nature of the case will admit, calculated for the of the society at our last meeting, to embedy favourite region, as the covering will admit, and latitude or neighbourhood of the writer of these made by himself, and some of his neighbouring farmers pursning the same plan of hedging; dred pannels of post and rail fence, measuring ten teet to the pannel, which is the usual length, makes sirty perches and ten feet over.

One thousand quicks will plant that distance, cost from nursery

Planting them by a man and boy each two days, man's wages and board at 75 cts. 50 do boy's do 50 One dreating the first year by running a furrow or two with the plough, 25 And then a light dressing with the hoe, 75 (same hand) Expense of first year

2d year dressi	ng as above \$ 1)		
3d. year do			
4th year do		fyrs dressing 5	
5th year do			
6th. year do	12		
7th. year trenc	hing to prepare for	plashing	
plough and i	lorse,	. 50	
and 3 days we	ork at 75 cts. throw	ring	
up a ditch		2 25	
	counting labour	28	
above, incl	uding timber,	S 50	
wattles and c	utting them.	2	
One hand 3 d	ays at plashing, at	\$1* 3	
		-4.55	
E	xpense of 7th year	11 25 11	25
	1		
	ys work trimming	\$ ~*	
and cleaning,		75 75	i
9th do	do	75	- 1
16th do	ďο	75 75	- 1
11th. do	₫ο	75	
12th do	do	75	- 1
13th. do	do	75	- 1
		4 52 4	50
*	expense of 6 years	437 4	377
		C 29	25

hedge as is exhibited in the drawing, taken from off, if the clipping is never omitted in due time, copper 13,000—medicinal drugs\$2,000—uncerasection of one thirteen years old, now in good as it lessens the labour, a rule that will apply tain manufactured article 301,000 raw materials condition and improving, becoming more dense through every operation in husbandry, and 329,000. every year, and, so far as I am able to form a should never be forgot, while twenty-five per judgment, I am of the opinion that seventy-five cent is saved, often lifty. cents annually applied to the trimming, will keep it in that form perpetually, not being yet able to discover any thing to form an idea of dissolution upon, in any reasonable time, therefore sufficient to ground a confidence of durability.

The calculation on this section of sixty perches will afford data to apply to any quantity of greater extention, and the annual expense on this, after the seventh year, is uniform, and may be considered to continue so, for as long a time as they are regularly attended to, which will apply to any extent, at one cent and a quarter per rod or perch of 161 feet.

If the writer of those observations had commenced hedging with the knowledge now ohtained by experience, one half his labour would have been saved.

The expense of a fence made of timber, say post and rail which is the most common in the dred pannels, that compared with the sume that day of the week will fall in that year. length of hedging places the case \$ 75 for a perishable material with 13 29 50 years of the time gone, and for a hedge growing better every year, leaving 45 50 of a balance in favor of sixty perches and ten feet distance, what that will amount to on a

I may further remark the labour of making live Produce of the Sea, fonce can be time by weak hands if rightly do Of the Forest, rected; my plashing was done by a man 74 Of Agriculture, years of age. The making of rails and handling stanufactures,

tion.

them requires a person in prime of life, and it is latterious in every stage of the process of erecthoods is a heavy tax on the owner.

Each neighbourhood may make their calculations of fences made of timber, according to circumstances attending the hedge, calculation may be relied on, if the rules and remarks foregoing are strictly attended to; and will apply to either kind of thorn, but it was the " Virginia parsley leafed thorn," of Marshall's catalogue of forest trees, that was preferred and which grows spontaneous, from this place to the south as far as the Mississippi, and I have no doubt of 17,000-poultry, maple sugar, &c. 7000. at thriving in a northern latitude, seeing no bad · nect from the winters of our Delaware climate. atthough I had a section plashed in the midst of 000-houts, shoes and saddlery 122,000-hats winter to prove the consequence.

The hedge may be considered as made in se ven years from time of plunting, as it is only 29 25 amounts to one cent and a quarter for each from molasses 153,000-refined sugar 11,000-The foregoing process has produced such a perch of distance; the quart r may be thrown chacefate 5000-gunpowder 110,000-hass and

# PERPETUAL ALMANAC.

Feb. March. Nov.	Feb.	Msy.	Jan- Oct.	Jan. April. July.	Sept. Dec.	June.
1	2	3	4	5	6	
8	1 9	10	11	12	13 1	14
15	16	17	18	19	20 1	21
22	1 23	1 24	25	26	1 27	28
29	30	31				

1820 Wednesday, 1826-Wednesday, 21-Thursday, 22-Friday, 27-Thursday, 28 - Saturday, 23-Saturday, 29-Sunday, 24 - Monday, 30-Monday, 31-Tuesday. 25-Tuesday, od infinitum.

To find the day of the month.

Nore .- In the leap years (where the day of the week in the first column is in italica.) Jan-—in other years in the preceding columns.

#### EXPORTS.

Sept. 30, 1819.

2,024,000 4,927,000 times. 41,452,000 Uncertain. 630,000

any other labour on a farm with a little attention of and some 431,000—spermaceti oil and candles 152,000.

Of the Forest -- skins and furs 481,000-Ginsong 30,000-Lumber, staves, spars, shingles, ing wooden fences, besides the destruction of hoops, poles, bewn timbur, &c. 2,106,000much valuable timber, which in some neighbour-look bark and other diges 146,000--naval stores 376,000—ashes pot and pearl 1,419,000.

> Of Agriculture-Beef, tallow, hides, live cattle 598,000-hulter and cheese 297.000pork, bacon, lard, and live hogs 1,009,000-borses and mules 100,000-Sheep 21,000wheat, flour, and bread 6.415,000-Inilian enen and meal 1,424,000--rve and meal 296.000h-rice 2.143.000-nats, pulse. potatnes, Sc. 195,000-tobacco 7.687.000-cutton 21, 0\$2,000-flavseed 171,000-hops 20.000-wax

Manufactures-tallow caudles and soap 469, 16.000-grain, spirits, beer and starch 95.000 -furniture, conches and other carriages \$25.000 -cordage 40,000-iron 54,000-snuff, wax trunming, that is required afterwards; which candles, tobacco, lead, &c. 505,000-spirits

#### THE FARMER.

BALTIMORE, FRIDAY, JANUARY 28, 1820.

A letter from Marietta, Ohio, communicating a new method of curing bacon, and the English mode of ceding hogs, has been received and will be attended to.;

Present Prices of Country Produce in this Market.

Actual sales-Maryland Tobacco, 18 hogsheads, Pa tuxont, sold this week at \$10 and \$12.-Virginia Tosacco, 4 hogsheads, Richmond, new crop, sold the present week for \$7 50-18 hogsheads, Potomac, at \$7 and S9-Old Richmond Tobacco, of the first quality, may be quoted at S8-Dess, per doz. 25 cts.—Chick-Ens, per doz. S2 to S2 3N-Tunkers, S1 to S1 23-Gless, 50 to 75 cts.—Hutter, 37 1-3 cts.—Veal, per quarter, S1 25 to S1 75-Do. per lb. 6 to 8 cts.—On-10NS, per bushel S1 to S1 25 N England do. per 100 hunches, S7-Persons per bushel 75 cts.—Tunkers bunches, S7-Perators, per bushel 75 cts.—Turnity, per do 50 cts.—Perators, per civit. S6 50 to S7-Common Mutron, per ib. 8 to lu cts.—Bakewell do. being a very superior breed of sheep, sold in the market on post and rail which is the most common in the vicinity of this place, is seventy-five cents for Observe the day of the week annexed to the lib.—Live Cattle, S6 to S6 50.—Har, per ton S18—each pannel of a four rail fence, to those who was in the first column, look in the table of the Staw, do. S11—Country Oats, 50 cts.—Flows, from have their fencing to purchase and the labour to month, and the number standing under each the wagons, \$\frac{3}{2}\$ Whisker, from do. 35 ets.—Randay that is seventy five dollars for one hundred the days of that mouth on which the wagons, \$\frac{3}{2}\$ Whisker, from do. 35 ets.—Randay that is seventy five dollars for one hundred the days of that mouth on which they are the days of the week will fall in that year.

IT ADVERTISEMENTS, which are, in their nanary and February must be taken in the conture and objects stated to a paper of this sort, such as lumns in the table where they are set in italies the sales of land, seed, live stock implements of husbandry, new inventions, &c. &c. will be inserted once only, at the rate of \$1 per square, to be paid in ad-The very extensive circulation of this paper among landed men, throughout the United States, large farm, I shall leave to the awaer's calcula. From the United States in the year ending makes it an eligible medium for giving such public notices, and one sublication is as good as forty, unless in cases where the taw prescribes a greater number of

# 2,574,000 Fresh and Sound Garden Seed,

IN GREAT VARIETY,

FOR SALE BY JOHN B. BASTIAN.

Orders left at Nicholas Bonefin's, in Commerco Street, will meet with immediate attention.

The wages of a hand to plash is at \$1, being an Of the produce of the Sea-there was of dried artist at the business, but that will, when generally in practice by done by common jahourers as readily as list \$1,052,000—pickled 40,000—whate oil the owner.

# PIRCES CURRENT

AT BALTIMORE:

Carefully Revised and Corrected every Thursday.

PER. RETAIL PRICES ARTICI.Es. BEEF, Northern mess bbl. 17 15 No 1. 19 50 No 2. lb. Bacon, 18 20 Butter, Ferkin 18 93 Coffee, first quality, 27 second do. Colton, -Twist, No. 5, 27 46 46 5 No. 8 a 10 No. 11 a 20, 53 No. 20 a 30, 80 1 2 Chocolate, No. 1, 33 28 No. 2, 25 No. 5, 20 2 Candles, mould, box 18 dipt, 45 scarce spermacoti, lb. 10 Cheese, American, 60 Feathers, 3 60 Fish, cod, dry herrings, Susquehannah, mackarel, No. 1 c 3 ьы. 2 75 retail 75 shad, trimmed, 7 6 Flour, superfine, fine, 5 50 6 bbl. 5 5 5 middlings, 4 50 Б 4 0 4 2 ryo, Flaxssed, rough, one. oleaned, bush ďο 16. do Hides, dryed, Hogs lard, 12 1: Leather, soal, 3 25 gal. 62 1-2 Molasses, Havana, New Orleans, 75 sugar house, 50 Oil, spermaceti. PORK, mess or 1st quality, bbl. :8 a 20 prime 2d do. 16 a cargo Sd do. 14 a 15 5 ground bbl. 1 75 Rice, lib. Rice, Srisirs, Brandy, Franch, 4th proofigul. peach, 4th proof 1 25 1 54 apple, lat proof 75 Gin, Holland, 1st proof 1 50 do. 4th proof do. N. England Rum, Jamaica, -50 2 Whiskey, Sonp, American, white, do brown, American, 1sl proof 75 let proof 50 62 1-2 • IJÞ. 18 21 9 10 Sugars, Havana, white, brown, 12 18 loaf. 25 2 lump, 20 a 20 lъ. Salt, St. Ubes, bц Liverpool, ground, -75 1 Shot, all sizes, -TOBACCO, Virginia fat, lb. 12 do. middlings, 60 ß Rappahaauock, 5 Kentucky, 043 small twist, manufactured, lb. 25 pound do. 80 TEAS, Bolies, Souchong, Hyson Skin lb. 76 78 Young Hyson, 25 a 150 75 impecial, WOOL, Merino, clean, 80 unwashed, 40 crossed, clean, 65 unwashed, 85 common country, clean, 57 unwashed 25 skinner's. 43

At a Town meeting held at the city of Pittsburgh agreeable to public notice, John Darman, Esq was called to the chair, and Mature B. Lowriz. Esq. appointed Sucretary.—Messrs. Herry Doling, Grozof Surton, and Borer Patterson, the committee appointed at a former meeting to furnish a condensed view of the present state of our Manufactures, contrasted with what they were in 1815, submitted the following statement.

## A STATEMENT

Of the comparative extent and value of the Manufactories of Pittsburg and vicinity in the years 1815 and 1619—viz.

28 50 80 20	MINUFACTORIES:	Number of hands employed in 1815.	Palue of the Manufactures in 1815.	Number of hands employed in 1819.	Falue of the Manufactures in 1819.
	Steam Engine Factories,	8290	300,000	24	840,000
	Founderies and Iron Castings, -	. 163	19,000	40	80,000
00	from and Nail Cactories.	. 65	241,200	30	40,500
10	Illacksmiths and Whitesmiths,	90	90,000	39	40,000
	Glass Manufactories and Glass Cutting.*	. 169	235 000	40	36,100
15	Hat Manufactories,	69	122,000	30	50,200
65	Woollen Factories and Hosiery,	63	44,560	16	16,150
	Saddlers,	68	90,100	28	36,000
ı	Breweries,	23	91,050	18	35,000
	White and Red Lead Factorics,	25	110,000	9	35,000
37	Tobacconists.	48	45,850	97	27,550
	Bruss Founderies,	- 35	49,633	12	11,700
50	Ropernsking.	18 28	30,000	15	15,000
۱.,	Baddletree Factories,	100	29,00 <b>0</b> 200,500	12 40	14,000
١٠٠	Tin Factories and Coppersmiths,	66	90,000	40	45,000
- 1	Chair Factories and Cabinet Making.	- 30	32,450	38	24,500 8,500
١	Silverplating,	- 42	42,000	á	0,500
15	Plano Making,	- 20	25,000	10	9,500
3	Wire Weaving,	10	12,000	. 7	6,000
0	Wire Making,	- 8	21,000	ò	0,000
!	Hutton Making,	- 6	6,250	8	2,100
ı	Umbrella Making,	. 2	1,600	Õ	0
1	Piano Porte Making,	4	2,000	1	700
- [	Taylors,	- 66	65,000	29	28,500
1	Shoemakers.	.140	125,500	50	49,000
- [	Patent Balances, Scale and Steelyards,	10	10,000	4	3,500
ı	Yellow Queensware,	9	10,000	0	0
1	Pipe Making,	- 3	1,800	0	Ō
- {	Linen Factory,	20	25,000	0	0
1	Wagon Making and Wheelwrights,	40	40,000	20	18,500
ø١	l'aper Muking.	50	40,000	30	30,000
ı	Auger Makers, Bellows Makers, Brush				
١	Makers, Cotton Spinners, Weavers,		•		
	Curriers, Cutlers, Locksmits, Spin- ning Machine Makers, Tanners,	- 175	195,000	90	120,000
0	Tallow Chandlers, Pattern Makers,	2. 0	200,000		20.,000
i	Silversmiths, Gunsmiths, and Soap-				
2	Boilers.				
0	20110111				
٦	·	1960	\$2,617,833	672	\$2833,000
1	On Flint Glass alone the reduction has	been \$75.			•
-		-	•		
8	(Signed)		E SUTTON,		teen.
26			DOANE, ATTERSON,	Commi	(LEC)
- 1	Parent December 94th 1810	RUD. P.	LI I ERSUN,	,	
1	Pittsannen, December 24th, 1819.				
- 1					

The above report being read and approved of, the following resolutions were unanimously adopted.

While we compare the present languishing state of our Manufactures with what they have lately been, we regret to find, on an examination of the facts here exhibited; that in the last four years, a decrease of the property of the facts here.

of this meeting, be printed in hand-bills; and that one copy be sent to each of our representatives in Conton gress, and our state Legislature, with an earnest request, that they will zealously endeavor to have such
to measures adopted, as will best accure, encourage and protect our Domestic Manufactures.

Resolved, That the editors of news-papers in this city, be requested to publish this statement. that

Resolved. That the editors of news-papers in this city, be requested to publish this statement. that these facts being known to the community at large, may have some tendency to cause them to abandon the use offorcign goods of every kind, which, we must consider, as a principal cause of our present embarrassments.

Resolved, That the gentlemen who furnished the report, are entitled to the thanks of the community, for the satisfactory manner in which they have discharged the duty assigned them.

SOHN DARRAGH, Chairman.

ATTEST, MATHEW B. LOWITE, Secretary, December 30th, 1819.

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